

## 7-Color Multiple Fluorescent Staining Kit (mIHC)

**Catalog No.:** RA10012

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### Basic Information

|                     |                                                  |
|---------------------|--------------------------------------------------|
| <b>Product name</b> | 7-Color Multiple Fluorescent Staining Kit (mIHC) |
| <b>Sizes</b>        | 20T, 50T, 100T                                   |
| <b>Storage</b>      | 2-8 °C                                           |
| <b>Shipping</b>     | Shipped with ice pack                            |
| <b>Validity</b>     | 12 months                                        |

### Product Introduction

This 7-Color Multiple Fluorescent Staining Kit (mIHC) is suitable for multiplex immunofluorescence staining of tissue samples, including paraffin sections, frozen sections, cell slides, cell smears, and organoids. It is particularly suitable for multiplex fluorescent immunolabeling using primary antibodies from the same source, but can also be used with antibodies from different sources. The primary principle of TSA is based on tyramide signal amplification (TSA), hereinafter referred to as TSA technology. TSA utilizes the peroxidase reaction of tyramide (wherein a fluorescently labeled tyramide forms a covalent binding site under the catalysis of HRP and  $H_2O_2$ ). This generates a large number of enzymatic reactions, which then bind to surrounding protein residues (including tryptophan, histidine, and tyrosine residues), forming a large amount of fluorescent deposits at the antigen-antibody binding site, thereby amplifying the signal. This kit uses multiple fluorescent dyes to label tyramide, resulting in strong and stable fluorescence, making it suitable for repeated immunolabeling and multiplex fluorescent staining.

### Product Components

| Components | Sizes |       |       | Dilutions |
|------------|-------|-------|-------|-----------|
|            | 20T   | 50T   | 100T  |           |
| TSA-550    | 10 µL | 25 µL | 50 µL | 1:200     |
| TSA-490    | 10 µL | 25 µL | 50 µL | 1:200     |
| TSA-680    | 10 µL | 25 µL | 50 µL | 1:200     |
| TSA-430    | 10 µL | 25 µL | 50 µL | 1:200     |

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|                                          |            |            |            |              |
|------------------------------------------|------------|------------|------------|--------------|
| TSA-594                                  | 10 $\mu$ L | 25 $\mu$ L | 50 $\mu$ L | 1:200        |
| TSA-750                                  | 10 $\mu$ L | 25 $\mu$ L | 50 $\mu$ L | 1:200        |
| TSA Dilution Buffer                      | 12 mL      | 30 mL      | 60 mL      | Ready-to-use |
| 3% H <sub>2</sub> O <sub>2</sub>         | 2 mL       | 5 mL       | 10 mL      | Ready-to-use |
| Blocking solution                        | 12 mL      | 30 mL      | 60 mL      | Ready-to-use |
| Primary antibody diluent                 | 12 mL      | 30 mL      | 60 mL      | Ready-to-use |
| Antibody elution reagent                 | 10 mL      | 25 mL      | 50 mL      | Ready-to-use |
| HRP-goat anti-rabbit/mouse IgG           | 12 mL      | 30 mL      | 60 mL      | Ready-to-use |
| DAPI staining solution                   | 2 mL       | 5 mL       | 10 mL      | Ready-to-use |
| Fluorescence anti-fading mounting medium | 2 mL       | 5 mL       | 10 mL      | Ready-to-use |

### Experimental procedure(For reference only)

#### A. Paraffin sections

1. Dewaxing: Soak the sections in xylene 1 (15 min), xylene 2 (15 min), anhydrous ethanol 1 (5 min), anhydrous ethanol 2 (5 min), 95% ethanol (5 min), 85% ethanol (5 min), and 75% ethanol (5 min) in sequence, and finally rinse the sections with water.
2. Antigen retrieval: Antigen retrieval typically uses 1× citric acid (pH 6.0) as the retrieval solution. High-temperature, high-pressure retrieval is performed. Place the sections in a pressure cooker, add an appropriate amount of retrieval solution, close the pressure cooker, and wait for 2 minutes after the steam has risen. Cool to room temperature, and retrieval is complete. [ For weakly expressed markers, EDTA (pH 9.0) can be used as the retrieval solution. For easily detached tissues such as bone and brain, microwave retrieval is recommended. The retrieval temperature is controlled at approximately 80°C, and 2× citric acid (pH 6.0) can be used as the retrieval solution.]
3. Endogenous enzyme blocking: Add 3% H<sub>2</sub>O<sub>2</sub> solution dropwise and incubate at room temperature for 20 minutes, then wash with PBS 3 times, 5 minutes per session. If the tissue is prone to falling off, the H<sub>2</sub>O<sub>2</sub> concentration and incubation time can be appropriately reduced.
4. Blocking: Add blocking solution to the tissue and incubate at 37°C for 30 minutes.
5. Primary antibody incubation: Dilute the primary antibody to an appropriate concentration using antibody diluent, add the antibody to the tissue, and incubate at 4°C overnight or at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
6. Secondary antibody incubation: Add HRP enzyme-labeled secondary antibody to the tissue and incubate at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.

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7. Incubate TSA reagent: add TSA-550 to the tissue, incubate at 37°C for 30min, then wash with PBS 3 times, 5 minutes per session.
  8. Antibody elution: Add antibody elution reagent to the tissue and incubate at room temperature for 15-25minutes (37C is better) , then wash with PBS 3 times, 5 minutes per session.
  9. Blocking: Add blocking solution to the tissue and incubate at 37°C for 30 minutes.
  10. Primary antibody incubation: Dilute the primary antibody to an appropriate concentration using antibody diluent, add the antibody to the tissue, and incubate at 4°C overnight or at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
  11. Secondary antibody incubation: Add HRP enzyme-labeled secondary antibody to the tissue and incubate at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
  12. Incubate TSA reagent: add TSA-490 to the tissue, incubate at 37°C for 30 minutes, then wash with PBS 3 times, 5 minutes per session.
  13. Antibody elution: Add antibody elution reagent to the tissue and incubate at room temperature for 15-25minutes (37C is better) , then wash with PBS 3 times, 5 minutes per session.
  14. Blocking: Add blocking solution to the tissue and incubate at 37°C for 30 minutes.
  15. Primary antibody incubation: Dilute the primary antibody to an appropriate concentration using antibody diluent, add the antibody to the tissue, and incubate at 4°C overnight or at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
  16. Secondary antibody incubation: Add HRP enzyme-labeled secondary antibody to the tissue and incubate at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
  17. Incubate TSA reagent: add TSA-680 to the tissue, incubate at 37°C for 30 minutes, then wash with PBS 3 times, 5 minutes per session.
  18. Antibody elution: Add antibody elution reagent to the tissue and incubate at room temperature for 15-25minutes (37C is better) , then wash with PBS 3 times, 5 minutes per session.
  19. Blocking: Add blocking solution to the tissue and incubate at 37°C for 30 minutes.
  20. Primary antibody incubation: Dilute the primary antibody to an appropriate concentration using antibody diluent, add the antibody to the tissue, and incubate at 4°C overnight or at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
  21. Secondary antibody incubation: Add HRP enzyme-labeled secondary antibody to the tissue and incubate at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
  22. Incubate TSA reagent: add TSA-430 to the tissue, incubate at 37°C for 30 minutes, then wash with PBS 3 times, 5 minutes per session.
  23. Antibody elution: Add antibody elution reagent to the tissue and incubate at room temperature for 15-25minutes (37C is better) , then wash with PBS 3 times, 5 minutes per session.

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24. Blocking: Add blocking solution to the tissue and incubate at 37°C for 30 minutes.
25. Primary antibody incubation: Dilute the primary antibody to an appropriate concentration using antibody diluent, add the antibody to the tissue, and incubate at 4°C overnight or at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
26. Secondary antibody incubation: Add HRP enzyme-labeled secondary antibody to the tissue and incubate at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
27. Incubate TSA reagent: add TSA-594 to the tissue, incubate at 37°C for 30 minutes, then wash with PBS 3 times, 5 minutes per session.
28. Antibody elution: Add antibody elution reagent to the tissue and incubate at room temperature for 15-25 minutes (37°C is better), then wash with PBS 3 times, 5 minutes per session.
29. Blocking: Add blocking solution to the tissue and incubate at 37°C for 30 minutes.
30. Primary antibody incubation: Dilute the primary antibody to an appropriate concentration using antibody diluent, add the antibody to the tissue, and incubate at 4°C overnight or at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
31. Secondary antibody incubation: Add HRP enzyme-labeled secondary antibody to the tissue and incubate at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
32. Incubate TSA reagent: add TSA-750 to the tissue, incubate at 37°C for 30 minutes, then wash with PBS 3 times, 5 minutes per session.
33. DAPI nuclear staining: Add DAPI staining solution to the tissue, incubate at room temperature for 5 minutes, and then wash with PBS 3 times, 5 minutes per session. Drain the solution and add anti-fading mounting medium to the tissue, then cover with a coverslip. Store the prepared fluorescent sections at 4°C in the dark.

### B. Frozen sections

1. Rewarming: Place the frozen sections at room temperature and return them to room temperature for later use.
2. Antigen retrieval:
  - (1) Frozen sections made from fixed samples:

Place the slice in a repair box filled with repair solution, heat it to 60-70°C in a microwave oven, maintain this temperature for about 5-10 minutes, and cool it to room temperature to complete antigen repair.
  - (2) Frozen slices made from fresh tissue:

Place the slices in fixative and fix at room temperature for 10-15 minutes. Wash the slices 2-3 times with PBS. Antigen retrieval is not required for subsequent experiments.

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3. Endogenous enzyme blocking: Add 3% H<sub>2</sub>O<sub>2</sub> solution dropwise and incubate at room temperature for 20 minutes, then wash with PBS 3 times, 5 minutes per session. If the tissue is prone to falling off, the H<sub>2</sub>O<sub>2</sub> concentration and incubation time can be appropriately reduced.
  4. Blocking: Add blocking solution to the tissue and incubate at 37°C for 30 minutes.
  5. Primary antibody incubation: Dilute the primary antibody to an appropriate concentration using antibody diluent, add the antibody to the tissue, and incubate at 4°C overnight or at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
  6. Secondary antibody incubation: Add HRP enzyme-labeled secondary antibody to the tissue and incubate at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
  7. Incubate TSA reagent: add TSA-550 to the tissue, incubate at 37°C for 30min, then wash with PBS 3 times, 5 minutes per session.
  8. Antibody elution: Add antibody elution reagent to the tissue and incubate at room temperature for 15-25minutes (37C is better) , then wash with PBS 3 times, 5 minutes per session.
  9. Blocking: Add blocking solution to the tissue and incubate at 37°C for 30 minutes.
  10. Primary antibody incubation: Dilute the primary antibody to an appropriate concentration using antibody diluent, add the antibody to the tissue, and incubate at 4°C overnight or at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
  11. Secondary antibody incubation: Add HRP enzyme-labeled secondary antibody to the tissue and incubate at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
  12. Incubate TSA reagent: add TSA-490 to the tissue, incubate at 37°C for 30 minutes, then wash with PBS 3 times, 5 minutes per session.
  13. Antibody elution: Add antibody elution reagent to the tissue and incubate at room temperature for 15-25minutes (37C is better) , then wash with PBS 3 times, 5 minutes per session.
  14. Blocking: Add blocking solution to the tissue and incubate at 37°C for 30 minutes.
  15. Primary antibody incubation: Dilute the primary antibody to an appropriate concentration using antibody diluent, add the antibody to the tissue, and incubate at 4°C overnight or at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
  16. Secondary antibody incubation: Add HRP enzyme-labeled secondary antibody to the tissue and incubate at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
  17. Incubate TSA reagent: add TSA-680 to the tissue, incubate at 37°C for 30 minutes, then wash with PBS 3 times, 5 minutes per session.
  18. Antibody elution: Add antibody elution reagent to the tissue and incubate at room temperature for 15-25minutes (37C is better) , then wash with PBS 3 times, 5 minutes per session.
  19. Blocking: Add blocking solution to the tissue and incubate at 37°C for 30 minutes.

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20. Primary antibody incubation: Dilute the primary antibody to an appropriate concentration using antibody diluent, add the antibody to the tissue, and incubate at 4°C overnight or at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
  21. Secondary antibody incubation: Add HRP enzyme-labeled secondary antibody to the tissue and incubate at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
  22. Incubate TSA reagent: add TSA-430 to the tissue, incubate at 37°C for 30 minutes, then wash with PBS 3 times, 5 minutes per session.
  23. Antibody elution: Add antibody elution reagent to the tissue and incubate at room temperature for 15-25minutes (37C is better) , then wash with PBS 3 times, 5 minutes per session.
  24. Blocking: Add blocking solution to the tissue and incubate at 37°C for 30 minutes.
  25. Primary antibody incubation: Dilute the primary antibody to an appropriate concentration using antibody diluent, add the antibody to the tissue, and incubate at 4°C overnight or at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
  26. Secondary antibody incubation: Add HRP enzyme-labeled secondary antibody to the tissue and incubate at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
  27. Incubate TSA reagent: add TSA-594 to the tissue, incubate at 37°C for 30 minutes, then wash with PBS 3 times, 5 minutes per session.
  28. Antibody elution: Add antibody elution reagent to the tissue and incubate at room temperature for 15-25minutes (37C is better) , then wash with PBS 3 times, 5 minutes per session.
  29. Blocking: Add blocking solution to the tissue and incubate at 37°C for 30 minutes.
  30. Primary antibody incubation: Dilute the primary antibody to an appropriate concentration using antibody diluent, add the antibody to the tissue, and incubate at 4°C overnight or at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
  31. Secondary antibody incubation: Add HRP enzyme-labeled secondary antibody to the tissue and incubate at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.
  32. Incubate TSA reagent: add TSA-750 to the tissue, incubate at 37°C for 30 minutes, then wash with PBS 3 times, 5 minutes per session.
  33. DAPI nuclear staining: Add DAPI staining solution to the tissue, incubate at room temperature for 5 minutes, and then wash with PBS 3 times, 5 minutes per session. Drain the solution and add anti-fading mounting medium to the tissue, then cover with a coverslip. Store the prepared fluorescent sections at 4°C in the dark.

### C. Cell slides

1. Antigen retrieval (**optional**, if cells are fixed for too long)

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Heat the repair solution to 60-70°C, then drop the heated repair solution onto the slide and then cool it to room temperature.

2. Cell permeabilization: Cells should be permeabilized with 0.5% Triton-100 at room temperature for 20 minutes, then wash with PBS 3 times, 5 minutes per session.

3. Endogenous enzyme blocking: Add 3% H<sub>2</sub>O<sub>2</sub> solution dropwise and incubate at room temperature for 20 min, then wash with PBS 3 times, 5 minutes per session. For cell slides that are prone to detachment, the H<sub>2</sub>O<sub>2</sub> concentration and incubation time can be appropriately reduced.

4. Blocking: Add blocking solution to the slide and incubate at 37°C for 30 minutes.

5. Primary antibody incubation: Dilute the primary antibody to an appropriate concentration using antibody diluent, add it dropwise to the slide, and incubate at 4°C overnight or at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.

6. Secondary antibody incubation: Add HRP enzyme-labeled secondary antibody to the slide and incubate at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.

7. Incubate with TSA reagent: add TSA-550 to the slide, incubate at 37°C for 30 minutes, and then wash with PBS 3 times, 5 minutes per session.

8. Antibody elution: Add antibody elution reagent to the slide and incubate at room temperature for 15-25 minutes (37°C is better), then wash with PBS 3 times, 5 minutes per session.

9. Blocking: Add blocking solution to the slide and incubate at 37°C for 30 minutes.

10. Primary antibody incubation: Dilute the primary antibody to an appropriate concentration using antibody diluent, add it dropwise to the slide, and incubate at 4°C overnight or at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.

11. Secondary antibody incubation: Add HRP enzyme-labeled secondary antibody to the slide and incubate at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.

12. Incubate with TSA reagent: add TSA-490 to the slide, incubate at 37°C for 30 minutes, and then wash with PBS 3 times, 5 minutes per session.

13. Antibody elution: Add antibody elution reagent to the slide and incubate at room temperature for 15-25 minutes (37°C is better), then wash with PBS 3 times, 5 minutes per session.

14. Blocking: Add blocking solution to the slide and incubate at 37°C for 30 minutes.

15. Primary antibody incubation: Dilute the primary antibody to an appropriate concentration using antibody diluent, add it dropwise to the slide, and incubate at 4°C overnight or at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.

16. Secondary antibody incubation: Add HRP enzyme-labeled secondary antibody to the slide and incubate at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.

17. Incubate with TSA reagent: add TSA-680 to the slide, incubate at 37°C for 30 minutes, and then

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wash with PBS 3 times, 5 minutes per session.

18. Antibody elution: Add antibody elution reagent to the slide and incubate at room temperature for 15-25 minutes (37°C is better) , then wash with PBS 3 times, 5 minutes per session.

19. Blocking: Add blocking solution to the slide and incubate at 37°C for 30 minutes.

20. Primary antibody incubation: Dilute the primary antibody to an appropriate concentration using antibody diluent, add it dropwise to the slide, and incubate at 4°C overnight or at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.

21. Secondary antibody incubation: Add HRP enzyme-labeled secondary antibody to the slide and incubate at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.

22. Incubate with TSA reagent: add TSA-430 to the slide, incubate at 37°C for 30 minutes, and then wash with PBS 3 times, 5 minutes per session.

23. Antibody elution: Add antibody elution reagent to the slide and incubate at room temperature for 15-25 minutes (37°C is better) , then wash with PBS 3 times, 5 minutes per session.

24. Blocking: Add blocking solution to the slide and incubate at 37°C for 30 minutes.

25. Primary antibody incubation: Dilute the primary antibody to an appropriate concentration using antibody diluent, add it dropwise to the slide, and incubate at 4°C overnight or at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.

26. Secondary antibody incubation: Add HRP enzyme-labeled secondary antibody to the slide and incubate at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.

27. Incubate with TSA reagent: add TSA-594 to the slide, incubate at 37°C for 30 minutes, and then wash with PBS 3 times, 5 minutes per session.

28. Antibody elution: Add antibody elution reagent to the slide and incubate at room temperature for 15-25 minutes (37°C is better) , then wash with PBS 3 times, 5 minutes per session.

29. Blocking: Add blocking solution to the slide and incubate at 37°C for 30 minutes.

30. Primary antibody incubation: Dilute the primary antibody to an appropriate concentration using antibody diluent, add it dropwise to the slide, and incubate at 4°C overnight or at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.

31. Secondary antibody incubation: Add HRP enzyme-labeled secondary antibody to the slide and incubate at 37°C for 1 hour, then wash with PBS 3 times, 5 minutes per session.

32. Incubate with TSA reagent: add TSA-750 to the slide, incubate at 37°C for 30 minutes, and then wash with PBS 3 times, 5 minutes per session.

33. DAPI nuclear staining: add DAPI staining solution to the slide, incubate at room temperature for 5 minutes, and then wash with PBS 3 times, 5 minutes per session. Add anti-fluorescence quenching mounting medium to the slide, turn the slide upside down on the slide, dry it properly, and The

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prepared fluorescent films were stored at 4°C away from light.

### Fluorescein Information

| Fluorescein | Ex (nm) | Em (nm) | Color      | Filters          |
|-------------|---------|---------|------------|------------------|
| TSA-490     | 490     | 520     | Green      | FITC channel     |
| TSA-550     | 550     | 570     | Orange-Red | CY3 channel      |
| TSA-680     | 680     | 700     | Deep Red   | CY5/CY5.5channel |
| TSA-430     | 430     | 480     | Aqua       | Aqua channel     |
| TSA-594     | 590     | 620     | Red        | Red channel      |
| TSA-750     | 750     | 780     | Deep Red   | CY7 channel      |

### Precautions

#### 1. Selection of primary antibodies

1.1 Primary antibodies should preferably be monoclonal antibodies, followed by polyclonal antibodies.

1.2 If the sample is mouse, try to avoid choosing mouse-derived primary antibodies. If you choose a mouse primary antibody, the secondary antibody will not only bind to the primary antibody but also to endogenous IgG in the tissue, resulting in nonspecific staining.

2. If the tissue is prone to falling off, it can be repaired in a 60°C water bath.

3. Compared to fluorescent secondary antibodies, TSA kits offer higher sensitivity and stronger signals. Therefore, the primary antibody concentration should be lowered. Generally, the dilution factor should be increased appropriately based on the recommended dilution ratio in the antibody datasheet to reduce background fluorescence caused by nonspecific binding. A gradient of primary antibody concentrations is recommended for optimal results.

4. If the background fluorescence is strong, it is recommended to add a tissue autofluorescence quenching step.

5. To ensure the effectiveness of antibody elution and fluorescent multiple labeling, it is recommended to perform TSA single-labeling tests on each antibody before formal multiple labeling. After confirming that each antibody single-labeling can produce a relatively ideal positive result, the antigen retrieval conditions, antibody sequence and other experimental conditions of the multiple labeling can be determined based on the single-labeling test results.

6. If some antibodies have high titers and strong affinities and are difficult to elute completely, the elution times can be increased.

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7. The antibody elution solution has strong fluidity. If the slide is not placed horizontally, the reagent will easily flow out of the circle, affecting the elution effect. It is necessary to pay attention to placing the slide flat during the operation.

8. Wear gloves, masks, and lab coats during operation to avoid contact between the reagents and skin and eyes. If the reagents accidentally come into contact with sensitive areas, rinse immediately with plenty of water.

**This product is for research use only!**