DAB Substrate Kit (brown, 50×)

Catalog No.: PA10003

Basic Information

Product name	DAB Substrate Kit (brown, 50×)
Sizes	100T, 500T
Storage	-20 ℃, keep away from light
Shipping	Shipped with ice pack
Validity	12 months

Product Introduction

3,3′-Diaminobenzidine (DAB) is the most widely used chromogenic substrate for horseradish peroxidase (HRP). In the presence of HRP and peroxide, DAB is oxidized to an insoluble brown precipitate that is alcohol- and water-resistant, providing crisp, permanent staining.

EnkiLife DAB Substrate Kit (50×) is an ultra-sensitive reagent designed for HRP-based colorimetric detection in immunohistochemistry (IHC), in-situ hybridization (ISH), and Western blotting. The kit is also suitable for visualizing endogenous peroxidase activity in cells or tissue sections.

Product Components

Components	100T	500T
Reagent 1: DAB concentrate (50×)	200 µL	1 mL
Reagent 2: DAB diluent	10 mL	50 mL

Experimental procedure

1. Prepare working solution: Mix DAB concentrate (50×) with DAB diluent at 1:50.
   Example: Add 20 µL concentrate to 980 µL diluent, mix thoroughly.
   Note: DAB chromogenic working solution must be prepared and used immediately, and should not be stored for later use.
2. Apply substrate: After the final wash, remove excess buffer and add enough DAB working solution to completely cover the sample.
3. Incubate: Allow color to develop at room temperature (RT) in the dark for 2–10 min (or longer if required); monitor visually until desired intensity is reached.

4. Stop reaction: Remove substrate and rinse sample 1–2 times with distilled water.
5. Tissue/cell slides: Counterstain with hematoxylin if desired, then proceed to mounting. Blots: Rinse, air-dry at RT in the dark, and store protected from light.

Notes

1. DAB concentrate is hazardous by inhalation, skin contact, and ingestion; wear appropriate PPE and work in a fume hood.
2. DAB diluent contains strong oxidizers; avoid contact with combustible materials.
3. For research use only; not intended for diagnostic or therapeutic applications.

This product is for research use only!