

**Product Name: Peroxiredoxin 1 (6A6) Mouse  
Monoclonal Antibody  
Catalog #: AMM03598**

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## Summary

|                        |   |
|------------------------|---|
| <b>Production Name</b> | Peroxiredoxin 1 (6A6) Mouse Monoclonal Antibody |
| <b>Description</b>     | Mouse Monoclonal Antibody                       |
| <b>Host</b>            | Mouse   |
| <b>Application</b>     | WB,IHC-F,IHC-P,ICC/IF                           |
| <b>Reactivity</b>      | Human,Mouse,Rat                                 |

## Performance

|                     |  |
|---------------------|--|
| <b>Conjugation</b>  | Unconjugated   |
| <b>Modification</b> | Unmodified   |
| <b>Isotype</b>      | IgG1   |
| <b>Clonality</b>    | Monoclonal   |
| <b>Form</b>         | Liquid   |
| <b>Storage</b>      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| <b>Buffer</b>       | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.          |
| <b>Purification</b> | Affinity Purification  |

## Immunogen

|                          |   |
|--------------------------|---|
| <b>Gene Name</b>         | PRDX1<br>PRDX1; PAGA; PAGB; TDPX2; Peroxiredoxin-1; Natural killer cell-enhancing factor A;                                 |
| <b>Alternative Names</b> | NKEF-A; Proliferation-associated gene protein; PAG; Thioredoxin peroxidase 2;<br>Thioredoxin-dependent peroxide reductase 2 |
| <b>Gene ID</b>           | 5052  |
| <b>SwissProt ID</b>      | Q06830.   |

## Application

|                         |   |
|-------------------------|---|
| <b>Dilution Ratio</b>   | WB: 1:500-1:1000 IHC: 1:50-1:100 IF: 1:50-1:200 |
| <b>Molecular Weight</b> | Calculated MW: 22 kDa; Observed MW: 22 kDa      |

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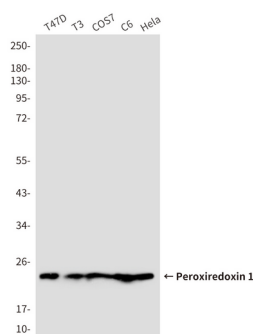
## Background

Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system but not from glutaredoxin. May play an important role in eliminating peroxides generated during metabolism. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H<sub>2</sub>O<sub>2</sub>.

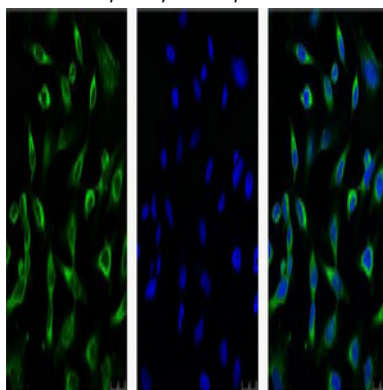
## Research Area

Cell Biology

## Image Data

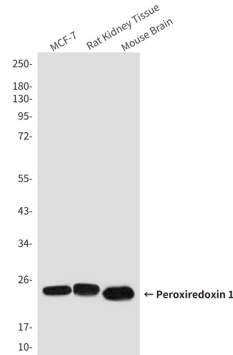


Western blot analysis of Prdx 1 in T47D, 3T3, COS7, C6 and HeLa lysates using Prdx 1 antibody.

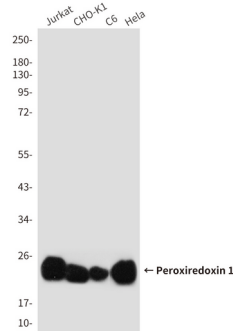


Immunofluorescence analysis of Peroxiredoxin 1 (6A6) in HeLa using Peroxiredoxin 1 (6A6) antibody(left), and DAPI (blue).

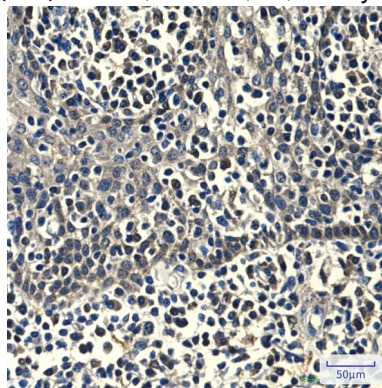
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Western blot analysis of Peroxiredoxin 1 (6A6) in MCF-7, rat Kidney , mouse Brain lysates using Peroxiredoxin 1 (6A6) antibody.



Western blot analysis of Peroxiredoxin 1 (6A6) in urkat, CHO-K1, C6, HeLa lysates using Peroxiredoxin 1 (6A6) antibody



Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using Peroxiredoxin 1/PAG (6A6) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

**Note**

For research use only.