

# Peroxiredoxin 3 Antibody

Rabbit mAb

Catalog # AP91432

## Product Information

|                          |  |
|--------------------------|--|
| <b>Application</b>       | WB, IHC, IF, FC, ICC, IP, IHF  |
| <b>Primary Accession</b> | <a href="#">P30048</a>   |
| <b>Reactivity</b>        | Human  |
| <b>Clonality</b>         | Monoclonal   |
| <b>Other Names</b>       | AOP1; HBC189; MER5; peroxiredoxin 3; Peroxiredoxin III; PRDX3; PRO1748; Protein MER5 homolog; PRX III; PRX3; SP22; |
| <b>Isotype</b>           | Rabbit IgG   |
| <b>Host</b>              | Rabbit   |
| <b>Calculated MW</b>     | 27693  |

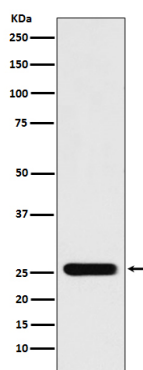
## Additional Information

|                                     |   |
|-------------------------------------|---|
| <b>Dilution</b>                     | WB 1:1000~1:5000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:80 FC 1:50   |
| <b>Purification</b>                 | Affinity-chromatography   |
| <b>Immunogen</b>                    | A synthesized peptide derived from human Peroxiredoxin 3  |
| <b>Description</b>                  | Involved in redox regulation of the cell. Protects radical-sensitive enzymes from oxidative damage by a radical-generating system. Acts synergistically with MAP3K13 to regulate the activation of NF-kappa-B in the cytosol. |
| <b>Storage Condition and Buffer</b> | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.   |

## Protein Information

|                          |  |
|--------------------------|--|
| <b>Name</b>              | PRDX3  |
| <b>Synonyms</b>          | AOP1   |
| <b>Function</b>          | Thiol-specific peroxidase that catalyzes the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively. Plays a role in cell protection against oxidative stress by detoxifying peroxides (PubMed: <a href="#">17707404</a> , PubMed: <a href="#">29438714</a> , PubMed: <a href="#">33889951</a> , PubMed: <a href="#">7733872</a> ). Acts synergistically with MAP3K13 to regulate the activation of NF-kappa-B in the cytosol (PubMed: <a href="#">12492477</a> ). Required for the maintenance of physical strength (By similarity). |
| <b>Cellular Location</b> | Mitochondrion. Cytoplasm. Early endosome. Note=Localizes to early endosomes in a RPS6KC1-dependent manner.   |

## Images



Western blot analysis of Peroxiredoxin 3 expression in MCF7 cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.