

Recombinant Anti-Peroxiredoxin 3 Rabbit mAb

Catalog # AP95078

Product Information

Application	WB, IHC, FC, IP, IF/IC
Primary Accession	P30048
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Calculated MW	27693

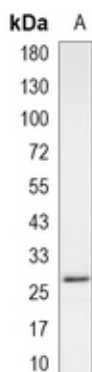
Additional Information

Gene ID	10935
Other Names	AOP1; Thioredoxin-dependent peroxide reductase, mitochondrial; Antioxidant protein 1; AOP-1; HBC189; Peroxiredoxin III; Prx-III; Peroxiredoxin-3; Protein MER5 homolog
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human Peroxiredoxin 3 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IP~~N/A IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

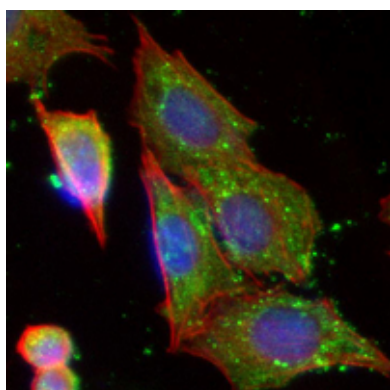
Protein Information

Name	PRDX3
Synonyms	AOP1
Function	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: 17707404 , PubMed: 29438714 , PubMed: 33889951 , PubMed: 7733872). Acts synergistically with MAP3K13 to regulate the activation of NF-kappa-B in the cytosol (PubMed: 12492477). Required for the maintenance of physical strength (By similarity).
Cellular Location	Mitochondrion. Cytoplasm. Early endosome. Note=Localizes to early endosomes in a RPS6KC1-dependent manner.

Images



Western blot analysis of Peroxiredoxin 3 expression in MCF7 (A) whole cell lysates. (Predicted band size: 28 kD; Observed band size: 26 kD)



Immunofluorescent analysis of Peroxiredoxin 3 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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