

Product datasheet for **TA380307**

Peroxiredoxin 3 (PRDX3) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, WB
Recommended Dilution:	WB,1:500 - 1:2000 IF,1:50 - 1:100
Reactivity:	Human, Mouse, Rat
Modifications:	Unmodified
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 63-256 of human Peroxiredoxin 3 (Peroxiredoxin 3 (PRDX3)) (NP_006784.1).
Formulation:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	25kDa/27kDa
Gene Name:	peroxiredoxin 3
Database Link:	Entrez Gene 10935 Human P30048



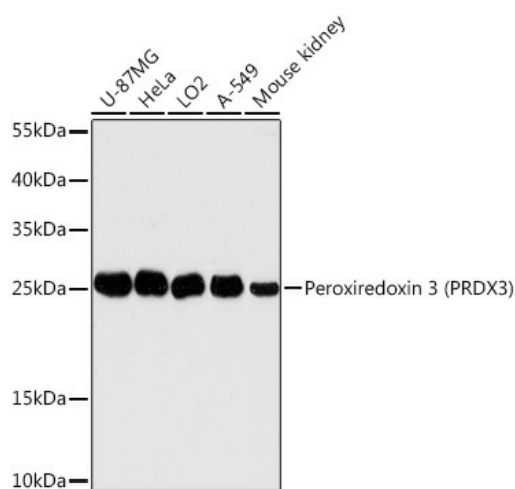
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Background:

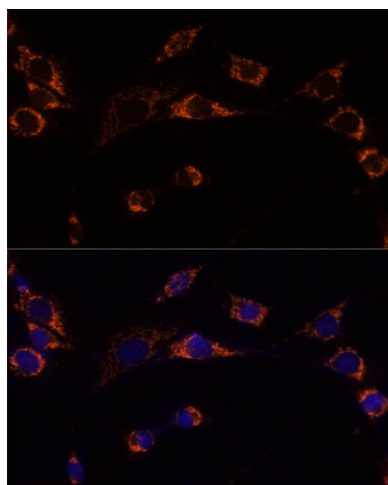
This gene encodes a mitochondrial protein with antioxidant function. The protein is similar to the C22 subunit of Salmonella typhimurium alkylhydroperoxide reductase, and it can rescue bacterial resistance to alkylhydroperoxide in E. coli that lack the C22 subunit. The human and mouse genes are highly conserved, and they map to the regions syntenic between mouse and human chromosomes. Sequence comparisons with recently cloned mammalian homologs suggest that these genes consist of a family that is responsible for the regulation of cellular proliferation, differentiation and antioxidant functions. This family member can protect cells from oxidative stress, and it can promote cell survival in prostate cancer. Alternative splicing of this gene results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 1, 3, 13 and 22.

Synonyms:

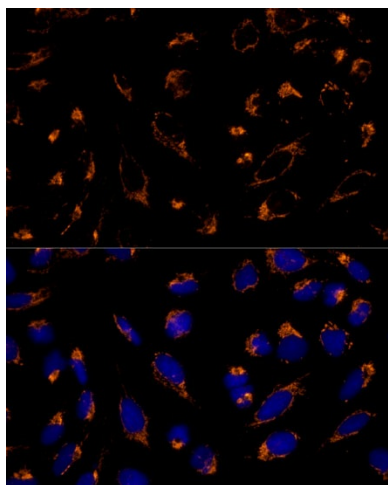
AOP-1; AOP1; HBC189; MER5; MGC24293; MGC104387; Peroxisredoxin-3; PRO1748; SP-22

Product images:

Western blot analysis of extracts of various cell lines, using Peroxisredoxin 3 (Peroxisredoxin 3 (PRDX3)) antibody (TA380307) at 1:3000 dilution. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit . | Exposure time: 90s.



Immunofluorescence analysis of NIH-3T3 cells using Peroxisredoxin 3 (Peroxisredoxin 3 (PRDX3)) Polyclonal Antibody (TA380307) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U-2 OS cells using Peroxisome Biogenesis Disorder 3A (PRDX3) Polyclonal Antibody (TA380307) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.