

Product datasheet for **TA340179**

Peroxiredoxin 3 (PRDX3) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB, IHC
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-PRDX3 antibody: synthetic peptide directed towards the N terminal of human PRDX3. Synthetic peptide located within the following region: AIPWGISATAALRPAACGRTSLNLLCSGSSQAPYFKGTAVVNGEFKDL
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	26 kDa
Gene Name:	peroxiredoxin 3
Database Link:	NP_054817 Entrez Gene 10935 Human P30048



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Background:

PRDX3 is a protein with antioxidant function and is localized in the mitochondrion. Expression of this gene product in *E. coli* deficient in the C22-subunit gene rescued resistance of the bacteria to alkylhydroperoxide. 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 homologues suggest that these genes consist of a family that is responsible for regulation of cellular proliferation, differentiation, and antioxidant functions. This gene encodes a protein with antioxidant function and is localized in the mitochondrion. This gene shows significant nucleotide sequence similarity to the gene coding for the C22 subunit of *Salmonella typhimurium* alkylhydroperoxide reductase. Expression of this gene product in *E. coli* deficient in the C22-subunit gene rescued resistance of the bacteria to alkylhydroperoxide. 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 homologues suggest that these genes consist of a family that is responsible for regulation of cellular proliferation, differentiation, and antioxidant functions. Two transcript variants encoding two different isoforms have been found for this gene.

Synonyms:

AOP-1; AOP1; HBC189; MER5; PRO1748; prx-III; SP-22

Note:

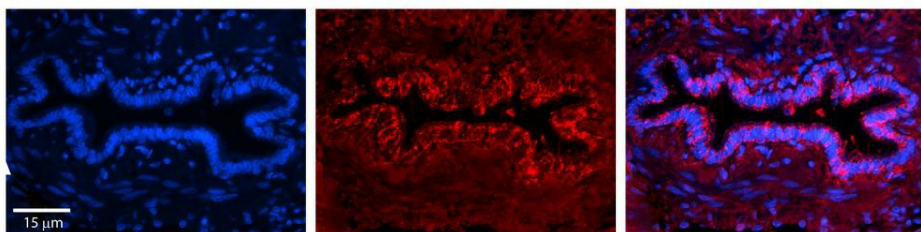
Immunogen Sequence Homology: Human: 100%

Protein Families:

Transcription Factors

Product images:

WB Suggested Anti-PRDX3 Antibody Titration: 0.2-1 ug/ml; Positive Control: Jurkat cell lysate PRDX3 is supported by BioGPS gene expression data to be expressed in Jurkat



Rabbit Anti-PRDX3 Antibody; Formalin Fixed Paraffin Embedded Tissue: Human Bronchial Epithelial Tissue; Observed Staining: Cytoplasmic; Primary Antibody Concentration: 1: 100; Secondary Antibody: Donkey anti-Rabbit-Cy3; Secondary Antibody Concentration: 1