

## Product datasheet for **TA322471S**

### Peroxiredoxin 3 (PRDX3) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: Hela, 293T and MCF7 cells, human fetal brain tissue and Jurkat cells IHC: 50-200 Positive control: Human breast cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to a region derived from 63-256 amino acids of human peroxiredoxin 3
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	28 kDa
Gene Name:	peroxiredoxin 3
Database Link:	<a href="#">NP_006784</a> <a href="#">Entrez Gene 11757 MouseEntrez Gene 64371 RatEntrez Gene 10935 Human P30048</a>



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**Background:**

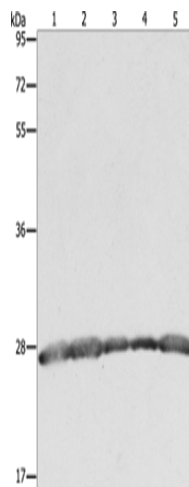
This gene encodes a protein with antioxidant function and is localized in the mitochondrion. This gene shows significant nucleotide sequence similarity to the gene coding for the C22 subunit of Salmonella typhimurium alkylhydroperoxide reductase. Expression of this gene product in E. coli deficient in 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:**

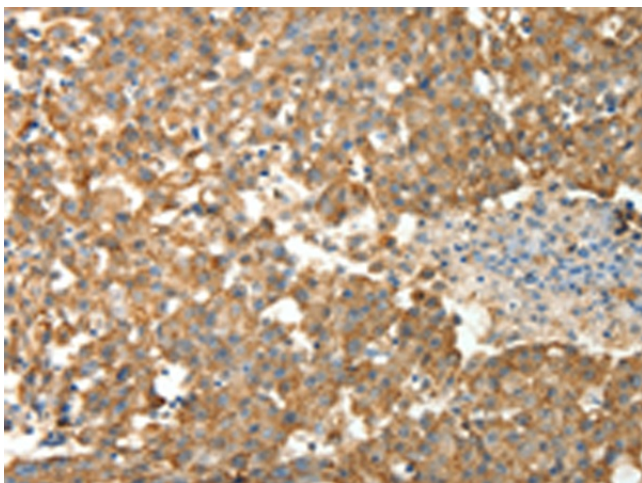
AOP-1; AOP1; HBC189; MER5; PRO1748; prx-III; SP-22

**Protein Families:**

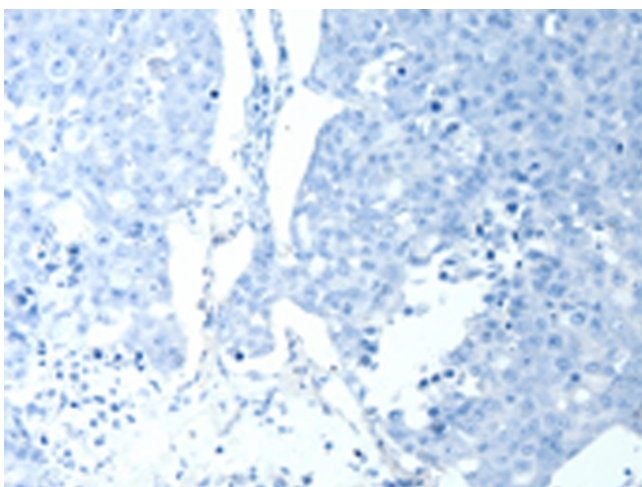
Transcription Factors

**Product images:**

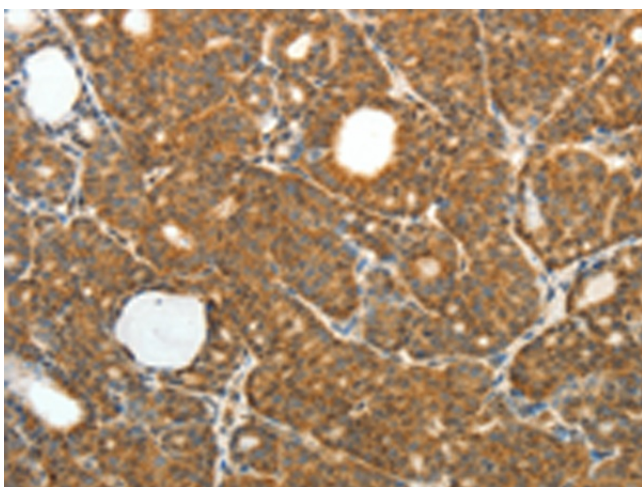
Gel: 10%SDS-PAGE  
Lysate: 40  $\mu$ g  
Lane 1-5: HeLa cells  
293T cells  
MCF7 cells  
human fetal brain tissue  
Jurkat cells  
Primary antibody: [TA322471] (PRDX3 Antibody)  
at dilution 1/800  
Secondary antibody: Goat anti rabbit IgG at  
1/8000 dilution  
Exposure time: 2 seconds



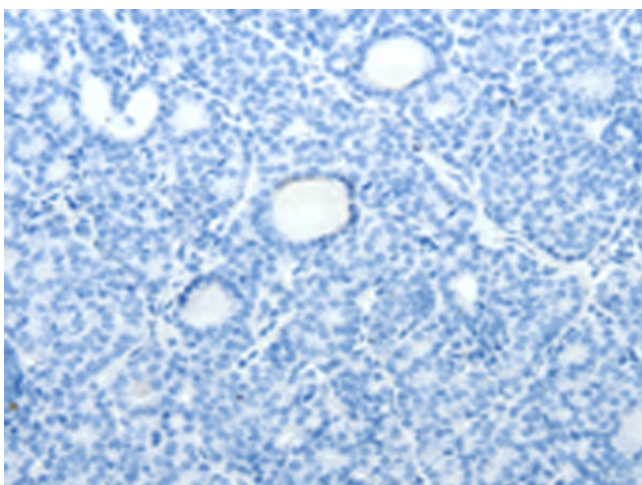
Immunohistochemistry of paraffin-embedded  
Human breast cancer tissue using [TA322471]  
(PRDX3 Antibody) at dilution 1/50 (Original  
magnification:  $\times$ 200)



Immunohistochemistry of paraffin-embedded Human breast cancer tissue using [TA322471] (PRDX3 Antibody) at dilution 1/50, treated with fusion protein. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA322471] (PRDX3 Antibody) at dilution 1/50 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA322471] (PRDX3 Antibody) at dilution 1/50, treated with fusion protein. (Original magnification: ×200)