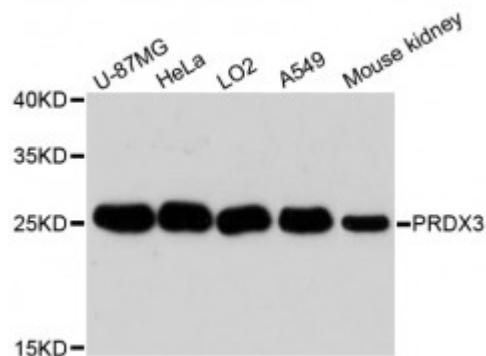


Anti-PRDX3 Antibody



Description

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.

Model	STJ115041
Host	Rabbit
Reactivity	Human, Mouse
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 63-256 of human PRDX3 (NP_006784.1).
Gene ID	10935
Gene Symbol	PRDX3
Dilution range	WB 1:500 - 1:2000
Purification	Affinity purification

Note	For Research Use Only (RUO).
Protein Name	Thioredoxin-dependent peroxide reductase mitochondrial
Molecular Weight	27.693 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:9354 OMIM:604769 Reactome:R-HSA-3299685
Alternative Names	Thioredoxin-dependent peroxide reductase mitochondrial
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 ,
Cellular Localization	Mitochondrion
Post-translational Modifications	Phosphorylated by LRRK2

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