

## PRDX3 Antibody (YA909)

Cat. No.:	HY-P81066
Synonyms:	PRDX3 Antibody (YA909) is an unconjugated, approximately 28 kDa, human-derived, anti-PRDX3 (YA909) monoclonal antibody. PRDX3 Antibody (YA909) can be used for: WB, IF-Cell, IHC-P, FC, IP experiments in human background without labeling.
Host:	Human
Reactivity:	Human
Conjugation:	Non-conjugated
SwissProt ID:	P30048
Research Field:	Neuroscience
Molecular Weight:	Predicted band size: 28 kDa

### PROPERTIES

Formulation	Supplied in 1* TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.	
Purity	Affinity Purified	
Storage & Stability	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.	
Appearance	Liquid	
Application & Dilution Ratio	Application	Dilution Ratio
	WB	1:500-1:2,000
	IF-Cell	1:50-1:200
	IHC-P	1:50-1:200
	FC	1:50-1:100
	IP	Use at an assay dependent concentration.
Shipping	Shipping with blue ice.	

### DESCRIPTION

Background	<p>Thioredoxin-dependent peroxide reductase, mitochondrial is an enzyme that in humans is encoded by the PRDX3 gene. It is a member of the peroxiredoxin family of antioxidant enzymes. 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</p>
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have been found for this gene.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA