Peroxiredoxin 2/PRDX2 Conjugated Antibody

Catalog No: #C48233

Package Size: #C48233-AF350 100ul #C48233-AF405 100ul #C48233-AF488 100ul #C48233-AF555 100ul #C48233-AF594 100ul #C48233-AF647 100ul #C48233-AF680 100ul #C48233-AF750 100ul #C48233-Biotin 100ul

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Description

Product Name	Peroxiredoxin 2/PRDX2 Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Peptide
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	Epididymis secretory sperm binding protein Li 2a antibody HEL S 2a antibody MGC4104 antibody Natural killer cell enhancing factor B antibody Natural killer cell-enhancing factor B antibody Natural Killer Enhancing Factor B antibody NKEF B antibody NKEF-B antibody NKEFB antibody Peroxiredoxin-2 antibody PRDX 2 antibody PRDX2 antibody PRDX2_HUMAN antibody PrP antibody PRX2 antibody PRXII antibody PTX1 antibody TDPX1 antibody Thiol Specific Antioxidant 1 antibody Thiol specific antioxidant protein antibody Thiol-specific antioxidant protein antibody Thioredoxin Dependent Peroxide Reductase 1 antibody Thioredoxin peroxidase 1 antibody Thioredoxin-dependent peroxide reductase 1 antibody Torin antibody TPX1 antibody TSA antibody
Accession No.	Swiss-Prot#:P32119
Uniprot	P32119
GeneID	7001;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	22 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Background

The peroxiredoxin (PRX) family comprises six antioxidant proteins, PRX I, II, III, IV, V and VI, which protect cells from reactive oxygen species (ROS) by preventing the metal-catalyzed oxidation of enzymes. The PRX proteins primarily utilize thioredoxin as the electron donor for antioxidation, although they are fairly promiscuous with regard to the hydroperoxide substrate. In addition to protection from ROS, peroxiredoxins are also involved in cell proliferation, differentiation and gene expression. PRX I, II, IV and VI show diffuse cytoplasmic localizationoΩ½oΩ½The human PRX I gene encodes a protein that is expressed in several tissues, including liver, kidney, testis, lung and nervous system. PRX II is expressed in testis, while PRX III shows expression in lung. PRX I, II and III are overexpressed in breast cancer and may be involved in its development or progression. Upregulated protein levels of PRX I and II in Alzheimer's disease (AD) and Down syndrome (DS) indicate the involvement of PRX I and II in their pathogenesis.

Note: This product is for in vitro research use only