Peroxiredoxin 3 Conjugated Antibody

Catalog No: #C49595

Package Size: #C49595-AF350 100ul #C49595-AF405 100ul #C49595-AF488 100ul #C49595-AF555 100ul #C49595-AF594 100ul #C49595-AF647 100ul #C49595-AF680 100ul #C49595-AF750 100ul #C49595-Biotin 100ul

Orders: order@signalwayantibody.com
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Description

Product Name	Peroxiredoxin 3 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu
Immunogen Description	recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	Antioxidant protein 1 antibody AOP 1 antibody AOP-1 antibody AOP1 antibody HBC189 antibody MER5 antibody MGC104387 antibody MGC24293 antibody mitochondrial antibody peroxiredoxin 3 antibody Peroxiredoxin III antibody Peroxiredoxin-3 antibody PRDX3 antibody PRDX3_HUMAN antibody PRO1748 antibody Protein MER5 homolog antibody PRX III antibody Prx-III antibody PRX3 antibody SP 22 antibody SP-22 antibody SP22 antibody Thioredoxin dependent peroxide reductase mitochondrial antibody Thioredoxin-dependent peroxide reductase antibody
Accession No.	Swiss-Prot#:P30048
Uniprot	P30048
GeneID	10935;
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	24 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 localization, while PRX III and V exhibit distinct mitochondrial localization. The 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. The human PRX IV gene is abundantly expressed in many tissues.

Note: This product is for in vitro research use only