PRDX6 Rabbit mAb

Catalog No: #49475

Package Size: #49475-1 50ul #49475-2 100ul



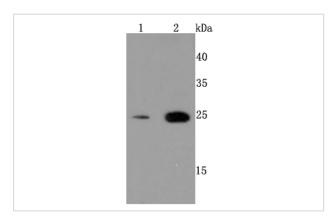
Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

Product Name PRDX6 Rabbit mAb Host Species Recombinant Rabbit Clonality Monoclonal antibody Clone No. JM11-13 Purification ProA affinity purified Applications WB, IP, ICC/IF Species Reactivity Hu, Ms, Rt Immunogen Description recombinant protein Other Names 1 Cys antibody 1 Cys peroxiredoxin antibody 1 Cys PRX antibody 1 cysPrx antibody 1-Cys peroxiredoxin antibody 9430088D19Rik antibody A690119 antibody Acidic calcium-independent phospholipase A2 antibody airPLA2 antibody Antioxidant protein 2 antibody AOP2 antibody App 2 rs3 antibody Bpr 12 antibody CP3 antibody CP3 antibody EC 1.11.1.15 antibody EC 3.1.1. antibody Epiddymis secretory sperm binding protein Li 128m antibody DRC 411.1.1.7 antibody EC 3.1.1. antibody Epiddymis secretory sperm binding protein Li 128m antibody MGC46173 antibody MKIAA0106 antibody Nor selenium glutathione peroxidase antibody Nor-selenium glutathione peroxidase antibody PRDX6 antibody P		
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Storage Store at -20°C	Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
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Application Details

WB: 1:500-1:2,000ICC: 1:50-1:200 IP: 1:10-1:50

Images



Western blot analysis of PRDX6 on Jurkat cells lysates using anti-PRDX6 antibody at 1/500 dilution. Positive controlo Ω'_2 o Ω'_2 Line 1: Hela Line 2:HepG2

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. PRX IV exists as a precursor protein, which is only detected in testis, and a processed secreted form. PRX V also exists as two forms, designated long and short. Like PRX IV, the long form of PRX V is highly expressed in testis. The short form of PRX V is more widely expressed, with high expression in liver, kidney, heart and lung. PRX VI, a 1-Cys peroxiredoxin (also known as antioxidant protein 2 or AOP2), is highly expressed in most tissues, particularly in epithelial cells. Localized to the cell cytosol, PRX VI functions independently of other peroxiredoxins and antioxidant proteins, specializing in antioxidant defense, lung phospholipid metabolism and protection of keratinocytes from cell death induced by reactive oxygen species.

References

Note: This product is for in vitro research use only