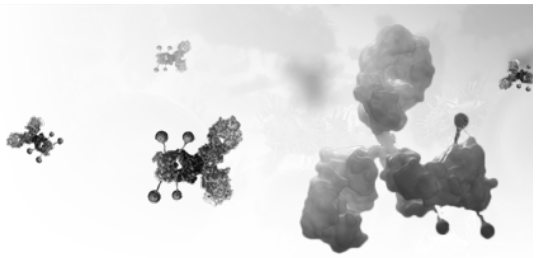

Rabbit Anti-PRDX1 monoclonal antibody, clone KG1056 (CABT-L864)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	Peroxiredoxin 1
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse
Clone	KG1056
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, ICC/IF, IHC, FC
Molecular Weight	22 kDa
Cellular Localization	Cytoplasm, Melanosome.
Positive Control	A431, Hela, HepG2, human liver cancer tissue, human kidney tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221
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Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction	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.
Keywords	Heme binding 23 kDa protein;MSP23;Natural killer cell-enhancing factor A;NKEF A;NKEF-A;NKEFA;OSF3;Osteoblast specific factor 3;PAG;Paga;PAGB;Peroxiredoxin-1;PRDX1;PRDX1_HUMAN;Proliferation associated gene A;Proliferation-associated gene protein;PRX1;PrxI;TDPX2;Thioredoxin peroxidase 2;Thioredoxin-dependent peroxide reductase 2 antibody

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