

Human Peroxiredoxin-1 (PRDX1) ELISA Kit | PRDX1 elisa kit

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CATALOG #
AAA331362

REACTIVITY
Human

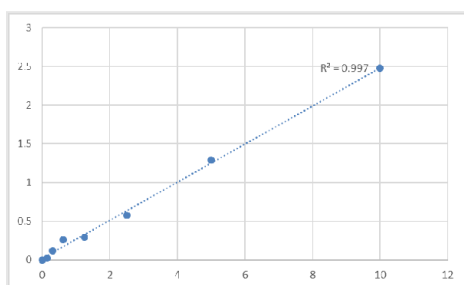
PRODUCT SYNONYMS

Peroxiredoxin-1 (PRDX1); Human Peroxiredoxin-1 (PRDX1) ELISA Kit; PRDX1; MSP23; NKEFA; PAG; PAGA; PAGB; PRX1; PRXI; TDPX2; natural killer-enhancing factor A; proliferation-associated gene A; thioredoxin-dependent peroxide reductase 2; PRDX1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Peroxiredoxin-1 (PRDX1) ELISA Kit has high sensitivity and excellent specificity for detection of Human PRDX1. No significant cross-reactivity or interference between Human PRDX1 and analogues was observed.
Sequence Length	199
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Peroxiredoxin-1 (PRDX1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PRDX1 elisa kit	Description: This Human Peroxiredoxin-1 (PRDX1) ELISA Kit employs a two-site sandwich ELISA to quantitate PRDX1 in samples. An antibody specific for PRDX1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PRDX1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRDX1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PRDX1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Peroxiredoxin-1 is a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8(+) T-cells. This protein may have a proliferative effect and play a role in cancer development or progression. Three transcript variants encoding the same protein have been identified for this gene. Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system but not from glutaredoxin. May play an important role in eliminating peroxides generated during metabolism. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H2O2.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	548453
NCBI GeneID	5052
UniProt Accession #	Q06830
NCBI Official Full Name	Peroxiredoxin-1
NCBI Official Synonym Full Names	peroxiredoxin 1
NCBI Official Symbol	PRDX1
NCBI Official Synonym Symbols	PAG; PAGA; PAGB; PRX1; PRXI; MSP23; NKEFA; TDPX2; NKEF-A
NCBI Protein Information	peroxiredoxin-1
UniProt Protein Name	Peroxiredoxin-1
UniProt Gene Name	PRDX1
UniProt Synonym Gene Names	PAGA; PAGB; TDPX2; NKEF-A; PAG
UniProt Entry Name	PRDX1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.