

Human Peroxiredoxin 4 (PRDX4) ELISA Kit | PRDX4 elisa kit

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CATALOG #
AAA331360

REACTIVITY
Human

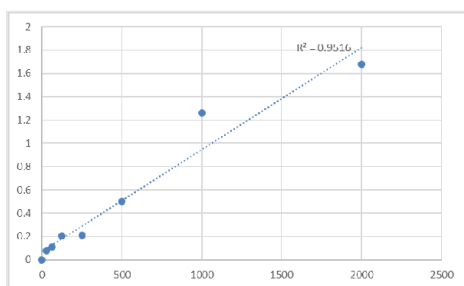
PRODUCT SYNONYMS

Peroxiredoxin 4 (PRDX4); Human Peroxiredoxin 4 (PRDX4) ELISA Kit; PRDX4; AOE37-2; PRX-4; thioredoxin peroxidase (antioxidant enzyme); PRDX4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Peroxiredoxin 4 (PRDX4) ELISA Kit has high sensitivity and excellent specificity for detection of Human PRDX4. No significant cross-reactivity or interference between Human PRDX4 and analogues was observed.
Sequence Length	271
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 4 (PRDX4) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PRDX4 elisa kit	Description: This Human Peroxiredoxin 4 (PRDX4) ELISA Kit employs a two-site sandwich ELISA to quantitate PRDX4 in samples. An antibody specific for PRDX4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PRDX4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRDX4 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 PRDX4 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Peroxiredoxin-4 is an antioxidant enzyme and belongs to the peroxiredoxin family. The protein is localized to the cytoplasm. Peroxidases of the peroxiredoxin family reduce hydrogen peroxide and alkyl hydroperoxides to water and alcohol with the use of reducing equivalents derived from thiol-containing donor molecules. This protein has been found to play a regulatory role in the activation of the transcription factor NF-kappaB. Sequence analysis predicted that the 271-amino acid protein, 70% identical to a yeast thiol-specific antioxidant, contains a signal peptide and 2 peroxide catalysis cysteine motifs conserved in all human peroxiredoxins. Functional analysis showed that PRDX4 protects glutamine synthetase (GLUL) from inactivation.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	3024727
NCBI GeneID	10549
UniProt Accession #	Q13162
NCBI Official Full Name	Peroxiredoxin-4
NCBI Official Synonym Full Names	peroxiredoxin 4
NCBI Official Symbol	PRDX4
NCBI Official Synonym Symbols	PRX-4; AOE372; AOE37-2; HEL-S-97n
NCBI Protein Information	peroxiredoxin-4
UniProt Protein Name	Peroxiredoxin-4
UniProt Gene Name	PRDX4
UniProt Synonym Gene Names	AOE37-2; Prx-IV
UniProt Entry Name	PRDX4_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.