

Human Thioredoxin-Dependent Peroxide Reductase, Mitochondrial (PRDX3) ELISA Kit | PRDX3 elisa kit

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CATALOG #
AAA331361

REACTIVITY
Human

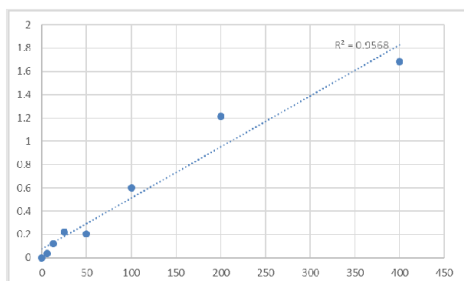
PRODUCT SYNONYMS

Thioredoxin-Dependent Peroxide Reductase; Mitochondrial (PRDX3); Human Thioredoxin-Dependent Peroxide Reductase; Mitochondrial (PRDX3) ELISA Kit; PRDX3; AOP-1; AOP1; MER5; MGC104387; MGC24293; PRO1748; SP-22; antioxidant protein 1; thioredoxin-dependent peroxide reductase; PRDX3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Thioredoxin-dependent peroxide reductase, mitochondrial (PRDX3) ELISA Kit has high sensitivity and excellent specificity for detection of Human PRDX3. No significant cross-reactivity or interference between Human PRDX3 and analogues was observed.
Sequence Length	256
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 Thioredoxin-dependent peroxide reductase, mitochondrial (PRDX3) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PRDX3 elisa kit	Description: This Human Thioredoxin-dependent peroxide reductase, mitochondrial (PRDX3) ELISA Kit employs a two-site sandwich ELISA to quantitate PRDX3 in samples. An antibody specific for PRDX3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PRDX3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRDX3 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 PRDX3 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: PRDX3 encodes a protein with antioxidant function and is localized in the mitochondrion. This gene shows significant nucleotide sequence similarity to the gene coding for the C22 subunit of Salmonella typhimurium alkylhydroperoxide reductase. Expression of this gene product in E. coli deficient in the C22-subunit gene rescued resistance of the bacteria to alkylhydroperoxide. The human and mouse genes are highly conserved, and they map to the regions syntenic between mouse and human chromosomes. Sequence comparisons with recently cloned mammalian homologues suggest that these genes consist of a family that is responsible for regulation of cellular proliferation, differentiation, and antioxidant functions. Two transcript variants encoding two different isoforms have been found for this gene.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	2507171
NCBI GeneID	10935
UniProt Accession #	P30048
NCBI Official Full Name	Thioredoxin-dependent peroxide reductase, mitochondrial
NCBI Official Synonym Full Names	peroxiredoxin 3
NCBI Official Symbol	PRDX3
NCBI Official Synonym Symbols	AOP1; MER5; AOP-1; SP-22; HBC189; PRO1748; prx-III
NCBI Protein Information	thioredoxin-dependent peroxide reductase, mitochondrial
UniProt Protein Name	Thioredoxin-dependent peroxide reductase, mitochondrial
UniProt Gene Name	PRDX3
UniProt Synonym Gene Names	AOP1; AOP-1; Prx-III
UniProt Entry Name	PRDX3_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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/thioredoxin-dependent-peroxide-reductase-mitochondrial-prdx3/331361>