

Human Peroxiredoxin-5, Mitochondrial (PRDX5) ELISA Kit | PRDX5 elisa kit

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CATALOG #
AAA331359

REACTIVITY
Human

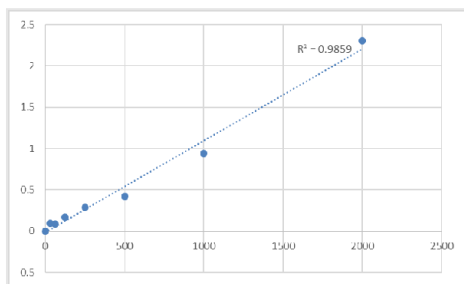
PRODUCT SYNONYMS

Peroxiredoxin-5; Mitochondrial (PRDX5); Human Peroxiredoxin-5; Mitochondrial (PRDX5) ELISA Kit; PRDX5; ACR1; AOEB166; B166; MGC117264; MGC142283; MGC142285; PLP; PMP20; PRDX6; PRXV; SBBI10; Alu co-repressor 1; TPx type VI; antioxidant enzyme B166; liver tissue 2D-page spot 71B; peroxisomal antioxidant en; PRDX5 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Peroxiredoxin-5, mitochondrial (PRDX5) ELISA Kit has high sensitivity and excellent specificity for detection of Human PRDX5. No significant cross-reactivity or interference between Human PRDX5 and analogues was observed.
Sequence Length	214
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-5, mitochondrial (PRDX5) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PRDX5 elisa kit	Description: This Human Peroxiredoxin-5, mitochondrial (PRDX5) ELISA Kit employs a two-site sandwich ELISA to quantitate PRDX5 in samples. An antibody specific for PRDX5 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PRDX5 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRDX5 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 PRDX5 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Peroxiredoxin-5, mitochondrial 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 different tissues under normal conditions and during inflammatory processes. This protein interacts with peroxisome receptor 1. The crystal structure of this protein in its reduced form has been resolved to 1.5 angstrom resolution. This gene uses alternate in-frame translation initiation sites to generate mitochondrial or peroxisomal/cytoplasmic forms. Three transcript variants encoding distinct isoforms have been identified for this gene.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6912238
NCBI GeneID	25824
NCBI Accession #	NP_036226.1
NCBI GenBank Nucleotide #	NP_036226.1
UniProt Accession #	P30044
NCBI Official Full Name	peroxiredoxin-5, mitochondrial isoform L
NCBI Official Synonym Full Names	peroxiredoxin 5
NCBI Official Symbol	PRDX5
NCBI Official Synonym Symbols	PLP; ACR1; B166; PRXV; PMP20; PRDX6; prx-V; SBB10; AOEB166; HEL-S-55
NCBI Protein Information	peroxiredoxin-5, mitochondrial
UniProt Protein Name	Peroxiredoxin-5, mitochondrial
UniProt Gene Name	PRDX5
UniProt Synonym Gene Names	ACR1; AOEB166; Prx-V
UniProt Entry Name	PRDX5_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.