

Human Peroxiredoxin-4 ELISA Kit | PRDX4 elisa kit

Human Peroxiredoxin-4 ELISA Kit

CATALOG #
AAA102186

REACTIVITY
Human

PRODUCT SYNONYMS

Peroxiredoxin-4; Human Peroxiredoxin-4 ELISA Kit; PRDX4/Peroxiredoxin-4/AOE372/Prx4/Antioxidant enzyme AOE372/AOE37-2/PRX-4/peroxiredoxin 4/Peroxiredoxin IV/prx-IV/thioredoxin peroxidase (antioxidant enzyme)/Thioredoxin peroxidase AO372/Thioredoxin-dependent peroxide reductase A0372; PRDX4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of PRDX4. No significant cross-reactivity or interference between PRDX4 and analogues was observed.
Sequence Length	271
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	78.125-5000pg/ml
Sensitivity	46.875pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PRDX4 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level PRDX4 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a PRDX4 ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	pg/ml	0	78.125	156.25	312.5	625	1250	2500	5000
Y	OD450	0.101	0.298	0.489	0.725	1.032	1.402	1.913	2.493

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PRDX4 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-PRDX4 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- PRDX4 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the PRDX4 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of PRDX4 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5453549
NCBI GeneID	10549
NCBI Accession #	NP_006397.1
NCBI GenBank Nucleotide #	NM_006406.1
Molecular Weight	30,540 Da
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.

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Online datasheet: <https://stage.aaabiotech.com/prdx4-human-elisa-kits/peroxiredoxin-4/102186>