

Rat Peroxiredoxin 5 (PRDX5) ELISA Kit | PRDX5 elisa kit

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CATALOG #
AAA148660

REACTIVITY
Rat

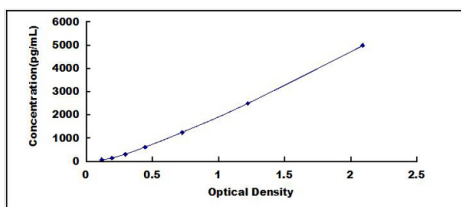
PRODUCT SYNONYMS

Peroxiredoxin 5 (PRDX5); Rat Peroxiredoxin 5 (PRDX5) ELISA Kit; PLP; PRDX6; ACR1; PMP20; PRXV; SBBI10; Thioredoxin Peroxidase PMP20; Peroxisomal Antioxidant Enzyme; TPx Type VI; Liver Tissue 2D-Page Spot 71B; Alu Co-Repressor 1; PRDX5 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Peroxiredoxin 5 (PRDX5). No significant cross-reactivity or interference between Peroxiredoxin 5 (PRDX5) and analogues was observed.
Sequence Length	213
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	78-5,000pg/mL
Sensitivity	34pg/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Peroxiredoxin 5 (PRDX5) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Peroxiredoxin 5 (PRDX5) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PRDX5 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Peroxiredoxin 5 (PRDX5). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Peroxiredoxin 5 (PRDX5). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Peroxiredoxin 5 (PRDX5), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Peroxiredoxin 5 (PRDX5) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for PRDX5 elisa kit	Enzyme & Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	16758404
NCBI GeneID	113898
NCBI Accession #	NP_446062.1
NCBI GenBank Nucleotide #	NM_053610.1
UniProt Accession #	Q9R063; Q68G22
Molecular Weight	17,035 Da
NCBI Official Full Name	peroxiredoxin-5, mitochondrial
NCBI Official Synonym Full Names	peroxiredoxin 5
NCBI Official Symbol	Prdx5
NCBI Official Synonym Symbols	Aoeb166
NCBI Protein Information	peroxiredoxin-5, mitochondrial
UniProt Protein Name	Peroxiredoxin-5, mitochondrial
UniProt Gene Name	Prdx5
UniProt Synonym Gene Names	AOEB166; Prx-V

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/rat-elisa-kits/peroxiredoxin-5-prdx5/148660>