

Mouse Glutathione Peroxidase 4 (GPX4) ELISA Kit | Gpx4 elisa kit

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CATALOG #
AAA219795

REACTIVITY
Mouse

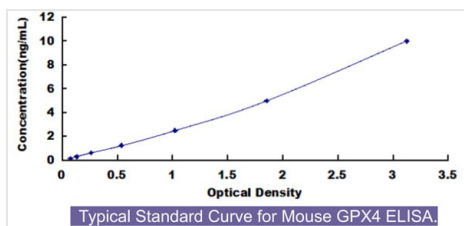
PRODUCT SYNONYMS

Glutathione Peroxidase 4 (GPX4); Mouse Glutathione Peroxidase 4 (GPX4) ELISA Kit; MCSP; PHGPx; SnGPx; SnPHGPx; Phospholipid Hydroperoxidase; Phospholipid hydroperoxide glutathione peroxidase; mitochondrial; Gpx4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of GPX4. No significant cross-reactivity or interference between GPX4 and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates or other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.056ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level GPX4 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level GPX4 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Shelf Life: 12 months

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Gpx4 elisa kit	Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to GPX4. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to GPX4. 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 GPX4, 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 GPX4 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of GPX4 in mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates or other biological fluids.
Product Categories/Family for Gpx4 elisa kit	Traditional ELISA Kit

NCBI AND UNIPROT INFORMATION

NCBI GI #	90903233
NCBI GeneID	625249
NCBI Accession #	NP_001032830.2
NCBI GenBank Nucleotide #	NM_001037741.3
UniProt Accession #	O70325; O35560; Q9JK35; Q91XR9
Molecular Weight	29,252 Da
NCBI Official Full Name	phospholipid hydroperoxide glutathione peroxidase, nuclear isoform 1
NCBI Official Synonym Full Names	glutathione peroxidase 4
NCBI Official Symbol	Gpx4
NCBI Official Synonym Symbols	GPx-4; PHGPx; snGPx; GSHPx-4; mtPHGPx
NCBI Protein Information	phospholipid hydroperoxide glutathione peroxidase, nuclear; phospholipid hydroperoxide glutathione peroxidase, mitochondrial; sperm nuclei glutathione peroxidase
UniProt Protein Name	Phospholipid hydroperoxide glutathione peroxidase, mitochondrial
UniProt Gene Name	Gpx4
UniProt Synonym Gene Names	PHGPx; GPx-4; GSHPx-4
UniProt Entry Name	GPX41_MOUSE

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://www.aaabiotech.com/mouse-elisa-kits/glutathione-peroxidase-4-gpx4/219795>