

Human glutathione peroxidase 4 (phospholipid hydroperoxidase) ELISA Kit | GPX4 elisa kit

Human Phospholipid hydroperoxide glutathione peroxidase, mitochondrial, GPX4 ELISA Kit

CATALOG #
AAA112369

REACTIVITY
Human

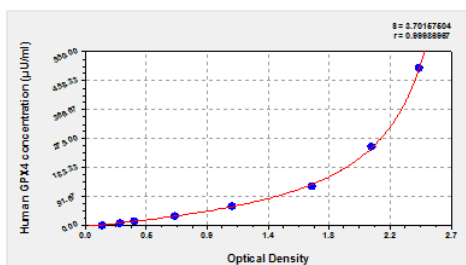
PRODUCT SYNONYMS

glutathione peroxidase 4 (phospholipid hydroperoxidase); Human Phospholipid hydroperoxide glutathione peroxidase; mitochondrial; GPX4 ELISA Kit; mitochondrial (GPX4) ELISA kit; MCSP; PHGPx; snGPx; snPHGPx; glutathione peroxidase 4; phospholipid hydroperoxidase; phospholipid hydroperoxide glutathione peroxidase; sperm nucleus glutathione peroxidase; GPX4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of human GPX4. No significant cross-reactivity or interference between human GPX4 and analogues was observed.
Sequence Length	227
Samples	Serum, plasma, tissue homogenates
Assay Type	Sandwich
Detection Range	7.8 uU/ml-500 uU/ml.
Sensitivity	The minimum detectable dose of human GPX4 is typically less than 1.95 uU/ml. The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined the mean O.D value of 20 replicates of the zero standard added by their three standard deviations.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GPX4 elisa kit	Principle of the assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for GPX4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any GPX4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for GPX4 is added to the wells. After washing, avidin 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 GPX4 bound in the initial step. The color development is stopped and the intensity of the color is measured.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	90903238
NCBI GeneID	2879
NCBI Accession #	NP_001034936.1
NCBI GenBank Nucleotide #	NM_001039847.2
UniProt Accession #	P36969; O43381; Q6PJ59; Q9UPK2
Molecular Weight	22,175 Da
NCBI Official Full Name	phospholipid hydroperoxide glutathione peroxidase, mitochondrial isoform B
NCBI Official Synonym Full Names	glutathione peroxidase 4
NCBI Official Symbol	GPX4
NCBI Official Synonym Symbols	MCSP; GPx-4; PHGPx; snGPx; GSHPx-4; snPHGPx
NCBI Protein Information	phospholipid hydroperoxide glutathione peroxidase, mitochondrial; phospholipid hydroperoxidase; sperm nucleus 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	GPX4_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/gpx4-human-elisa-kits/glutathione-peroxidase-4-phospholipid-hydroperoxidase/112369>