

Rat Glutathione peroxidase ELISA Kit | GSH-Px elisa kit

Rat Glutathione peroxidase ELISA Kit

CATALOG #
AAA16381

REACTIVITY
Rat

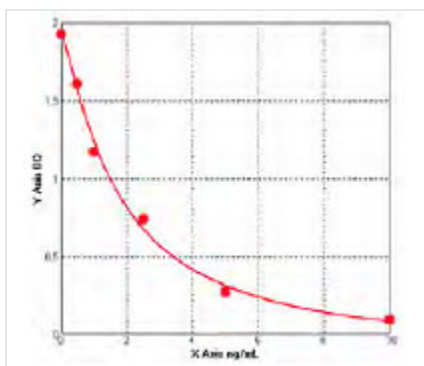
PRODUCT SYNONYMS

Glutathione peroxidase; Rat Glutathione peroxidase ELISA Kit; GSH-Px elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of GSH-PX. No significant cross-reactivity or interference between GSH-PX and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between GSH-PX and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GSH-Px elisa kit	Intended Uses: This GSH-PX ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of RatGSH-PX. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: GSH-PX ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-GSH-PX antibody and an GSH-PX-HRP conjugate. The assay sample and buffer are incubated together with GSH-PX-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the GSH-PX concentration since GSH-PX from samples and GSH-PX-HRP conjugate compete for the anti-GSH-PX antibody binding site. Since the number of sites is limited, as more sites are occupied by GSH-PX from the sample, fewer sites are left to bind GSH-PX-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The GSH-PX concentration in each sample is interpolated from this standard curve.
--	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	312004115
NCBI GeneID	2878
UniProt Accession #	P22352; O43787; Q86W78; Q9NZ74; Q9UEL1
Molecular Weight	25,552 Da
NCBI Official Full Name	glutathione peroxidase
NCBI Official Synonym Full Names	glutathione peroxidase 3 (plasma)
NCBI Official Symbol	GPX3
NCBI Official Synonym Symbols	GPx-P; GSHPx-3; GSHPx-P
NCBI Protein Information	glutathione peroxidase 3; GPx-3; plasma glutathione peroxidase; extracellular glutathione peroxidase
UniProt Protein Name	Glutathione peroxidase 3
UniProt Gene Name	GPX3
UniProt Synonym Gene Names	GPXP; GPx-3; GSHPx-3; GPx-P; GSHPx-P
UniProt Entry Name	GPX3_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.