

Goat GPX4 Polyclonal Antibody | anti-GPX4 antibody

Goat anti-GPX4 (Isoform a and c) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA13650	Goat	Tested: Human Expected from sequence similarity: Human, Mouse, Rat, Pig, Cow	ELISA, Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

GPX4; Polyclonal Antibody; Goat anti-GPX4 (Isoform a and c) Antibody; glutathione peroxidase 4 (phospholipid hydroperoxidase); HGNC: 4556; PHGPx; snGPx; glutathione peroxidase 4; phospholipid hydroperoxidase; sperm nucleus glutathione peroxidase; GPX4 antibody; glutathione peroxidase 4 (phospholipid hydroperoxidase) antibody; HGNC: 4556 antibody; PHGPx antibody; snGPx antibody; glutathione peroxidase 4 antibody; phospholipid hydroperoxidase antibody; sperm nucleus glutathione peroxidase antibody; GPX4 (Isoform a and c); anti-GPX4 antibody

PRODUCT SPECIFICATIONS

Host	Goat
Reactivity	Tested: Human Expected from sequence similarity: Human, Mouse, Rat, Pig, Cow
Clonality	Polyclonal
Purity/Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Form/Format	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% BSA.
Concentration	100ug specific antibody in 200ul (varies by lot)
Sequence	EEPLVIEKDL PHY
Sequence Length	197
Applicable Applications for anti-GPX4 antibody	ELISA (Peptide ELISA), WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	Peptide ELISA: antibody detection limit dilution 1:16000. Western blot: Approx 19kDa band observed in Human Kidney and Testis lysates and in lysates of cell line HEK293 (calculated MW of 22.1kDa according to NP_002076.2). Recommended concentration: 0.1-0.3µg/ml. This antibody has been successfully used in WB on Human: Schoenmakers E et al. (2010) PMID:21084748 and Papp LV et al. (2010) PMID: 19803747. IHC: In paraffin embedded Human Testis shows strong staining surrounding the nuclei of spermatocytes and surrounding spermatozoa. Recommended concentration: 0.3µg/ml. Immunoprecipitation: This antibody has been successfully used in IP on Human: Schoenmakers E et al. (2010) PMID:21084748.
Immunogen	Peptide with sequence C-EEPLVIEKDLPHY, from the C Terminus of the protein sequence according to NP_002076.2; NP_001034937.1.
Note	This antibody is expected to recognise isoform A (NP_002076.2) and isoform C (NP_001034937.1).
Preparation and Storage	Aliquot and store at -20°C. Minimize freezing and thawing.

IMAGES



IHC (Immunohistochemistry)
0.3ug/ml) staining of paraffin embedded Human Testis. Microwaved antigen retrieval with citrate buffer pH 6, HRP-staining.



WB (Western Blot)
0.1ug/ml) staining of Human Testis lysate (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

NCBI AND UNIPROT INFORMATION

NCBI GI #	75709200
NCBI GeneID	2879
NCBI Accession #	NP_002076.2; NP_001034937.1
NCBI GenBank Nucleotide #	NM_002085.4
NCBI Official Full Name	phospholipid hydroperoxide glutathione peroxidase, mitochondrial isoform A
NCBI Official Synonym Full Names	glutathione peroxidase 4
NCBI Official Symbol	GPX4
NCBI Official Synonym Symbols	MCSP; SMDS; GPx-4; PHGPx; snGPx; GSHPx-4; snPHGPx
NCBI Protein Information	phospholipid hydroperoxide glutathione peroxidase, mitochondrial
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/polyclonal/gpx4-antibody-peptide-elisa-western-blot-immunohistochemistry-elisa/13650>