

Rabbit GPX4 Polyclonal Antibody | anti-GPX4 antibody

GPX4 Polyclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA312873	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot

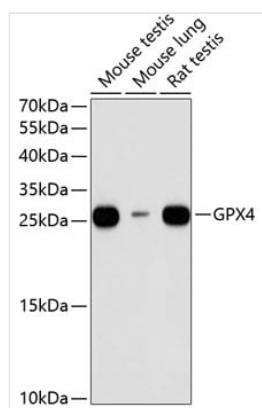
PRODUCT SYNONYMS

GPX4; Polyclonal Antibody; GPX4 Polyclonal Antibody; GPx-4; GSHPx-4; MCSP; PHGPx; SMDS; snGPx; snPHGPx; anti-GPX4 antibody

PRODUCT SPECIFICATIONS

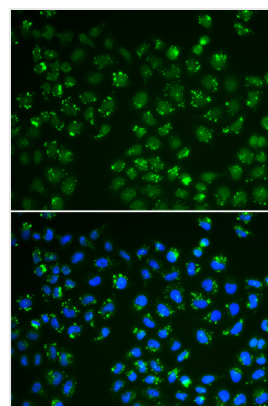
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH7.4, 150mM NaCl, 0.02% sodium azide and 287% glycerol. PBS with 0.02% sodium azide, 50% glycerol, pH7.240
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-GPX4 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant fusion protein of human GPX4 (NP_002076.2)
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



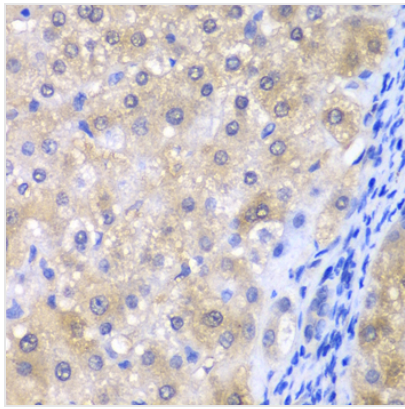
WB (Western Blot)

Western blot analysis of extracts of various cell lines, using GPX4 antibody at 1:1000 dilution.



IF (Immunofluorescence)

Immunofluorescence analysis of A549 cells using GPX4 antibody . Blue: DAPI for nuclear staining.



IHC (Immunohistochemistry)
 Immunohistochemistry of paraffin-embedded human liver damage using GPX4 antibody at dilution of 1:200 .

ADDITIONAL INFORMATION

Related Product Information for anti-GPX4 antibody	The protein encoded by this gene belongs to the glutathione peroxidase family, members of which catalyze the reduction of hydrogen peroxide, organic hydroperoxides and lipid hydroperoxides, and thereby protect cells against oxidative damage. Several isozymes of this gene family exist in vertebrates, which vary in cellular location and substrate specificity. This isozyme has a high preference for lipid hydroperoxides and protects cells against membrane lipid peroxidation and cell death. It is also required for normal sperm development; thus, it has been identified as a 'moonlighting' protein because of its ability to serve dual functions as a peroxidase, as well as a structural protein in mature spermatozoa. Mutations in this gene are associated with Sedaghatian type of spondylometaphyseal dysplasia (SMDS). This isozyme is also a selenoprotein, containing the rare amino acid selenocysteine (Sec) at its active site. Sec is encoded by the UGA codon, which normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, designated the Sec insertion sequence (SECIS) element, that is necessary for the recognition of UGA as a Sec codon, rather than as a stop signal. Alternatively spliced transcript variants have been found for this gene.
Product Categories/Family for anti-GPX4 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	75709200
NCBI GeneID	2879
NCBI Accession #	NP_002076.2
NCBI GenBank Nucleotide #	NM_002085.3
UniProt Accession #	P36969 ; O43381 ; Q6PJ59 ; Q9UPK2 ; Q6PI42 ; Q6PJX4
Molecular Weight	22,175 Da
NCBI Official Full Name	phospholipid hydroperoxide glutathione peroxidase, mitochondrial isoform A
NCBI Official Synonym Full Names	glutathione peroxidase 4 (phospholipid hydroperoxidase)
NCBI Official Symbol	GPX4
NCBI Official Synonym Symbols	MCSP; PHGPx; snGPx; snPHGPx
NCBI Protein Information	phospholipid hydroperoxide glutathione peroxidase, mitochondrial; GPx-4; GSHPx-4; 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

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/gpx4-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/312873>