

Rabbit GPX4 Polyclonal Antibody | anti-GPX4 antibody

GPX4 antibody - middle region

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA200822	Rabbit	Cow, Goat, Guinea Pig, Human, Mouse, Rat, Yeast, Zebrafish	Western Blot, Immunohistochemistry

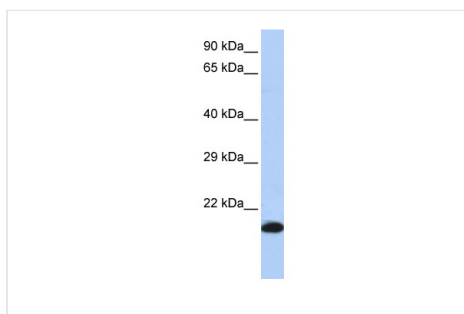
PRODUCT SYNONYMS

GPX4; Polyclonal Antibody; GPX4 antibody - middle region; anti-GPX4 antibody

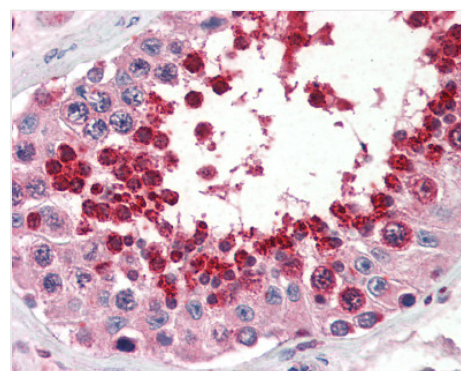
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Cow, Goat, Guinea Pig, Human, Mouse, Rat, Yeast, Zebrafish
Clonality	Polyclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Synthetic peptide with the following sequence: QU GKTEVNYTQL VDLHARYAEC GLRILAFPCN QFGKQEPGSN EEIKEFAA
Sequence Length	197
Applicable Applications for anti-GPX4 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Homology	Cow: 86%; Goat: 86%; Guinea Pig: 86%; Human: 100%; Mouse: 86%; Rat: 86%; Yeast: 93%; Zebrafish: 86%
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human GPX4
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

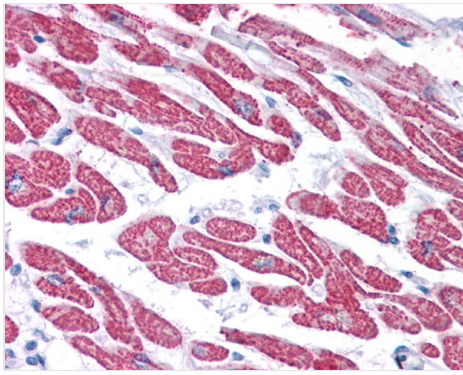
IMAGES


WB (Western Blot)

GPX4 antibody - middle region validated by WB using HepG2 cell lysate at 1.0ug/ml. GPX4 is supported by BioGPS gene expression data to be expressed in HepG2


IHC (Immunohistochemistry)

Immunohistochemistry with Rat Brain lysate tissue



IHC (Immunohistochemistry)
 Immunohistochemistry with formalin-fixed, paraffin-embedded human Heart tissue at an antibody concentration of 5.0ug/ml using anti-GPX4 antibody

ADDITIONAL INFORMATION

Related Product Information for anti-GPX4 antibody	This is a rabbit polyclonal antibody against GPX4. It was validated on Western Blot using a cell lysate as a positive control. Target Description: Glutathione peroxidase catalyzes the reduction of hydrogen peroxide, organic hydroperoxide, and lipid peroxides by reduced glutathione and functions in the protection of cells against oxidative damage. Human plasma glutathione peroxidase has been shown to be a selenium-containing enzyme and the UGA codon is translated into a selenocysteine. Through alternative splicing and transcription initiation, rat produces proteins that localize to the nucleus, mitochondrion, and cytoplasm. In humans, experimental evidence for alternative splicing exists; alternative transcription initiation and the cleavage sites of the mitochondrial and nuclear transit peptides need to be experimentally verified. Glutathione peroxidase catalyzes the reduction of hydrogen peroxide, organic hydroperoxide, and lipid peroxides by reduced glutathione and functions in the protection of cells against oxidative damage. Human plasma glutathione peroxidase has been shown to be a selenium-containing enzyme and the UGA codon is translated into a selenocysteine. Through alternative splicing and transcription initiation, rat produces proteins that localize to the nucleus, mitochondrion, and cytoplasm. In humans, experimental evidence for alternative splicing exists; alternative transcription initiation and the cleavage sites of the mitochondrial and nuclear transit peptides need to be experimentally verified.
Product Categories/Family for anti-GPX4 antibody	Polyclonal; Signal Proteins; Lymphocyte Signaling; Membrane Protein; Drugs and Drug Metabolism; Developmental Biology; Immunohistochemistry; Receptors

NCBI AND UNIPROT INFORMATION

NCBI GI #	75709200
NCBI GeneID	2879
NCBI Accession #	NP_002076
NCBI GenBank Nucleotide #	NM_002085
UniProt Accession #	P36969
Molecular Weight	22kDa
NCBI Official Full Name	phospholipid hydroperoxide glutathione peroxidase 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
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-western-blot-immunohistochemistry-elisa/200822>