

Rabbit GPX4 Polyclonal Antibody | anti-GPX4 antibody

(KD Validated) GPX4 Polyclonal Antibody

CATALOG # AAA22318	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot, Immunofluorescence
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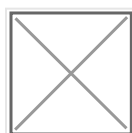
PRODUCT SYNONYMS

GPX4; Polyclonal Antibody; (KD Validated) GPX4 Polyclonal Antibody; GPx-4; GSHPx-4; MCSP; PHGPx; SMDS; snGPx; snPHGPx; glutathione peroxidase 4; anti-GPX4 antibody

PRODUCT SPECIFICATIONS

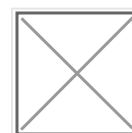
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.05% proclin300,50% glycerol,pH7.3.
Concentration	1mg/mL (varies by lot)
Applicable Applications for anti-GPX4 antibody	WB (Western Blot), IF (Immunofluorescence)
Application Notes	WB: 1:500-1:2000 IF: 1:50-1:200
Immunogen	Recombinant fusion protein of human GPX4
Preparation and Storage	Storage: -20 degree C/One year. Avoid freeze/thaw cycles.

IMAGES



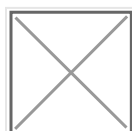
IF (Immunofluorescence)

Immunofluorescence analysis of Rat testis cells using GPX4 Polyclonal Antibody at dilution of 1:200 (40x lens). Blue: DAPI for nuclear staining.



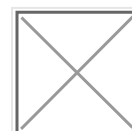
IF (Immunofluorescence)

Immunofluorescence analysis of Mouse testis cells using GPX4 Polyclonal Antibody at dilution of 1:200 (40x lens). Blue: DAPI for nuclear staining.



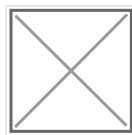
IF (Immunofluorescence)

Immunofluorescence analysis of rat testis cells using GPX4 Polyclonal Antibody at dilution of 1:200 (40x lens). Blue: DAPI for nuclear staining.

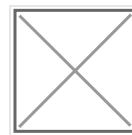


IF (Immunofluorescence)

Immunofluorescence analysis of mouse testis cells using GPX4 Polyclonal Antibody at dilution of 1:200 (40x lens). Blue: DAPI for nuclear staining.

**WB (Western Blot)**

Western blot analysis of extracts from wild type(WT) and GPX4 knockdown (KD) U-87MG cells using GPX4 Polyclonal Antibody at 1:1000 dilution.

**WB (Western Blot)**

Western blot analysis of extracts of Jurkat cells using GPX4 Polyclonal Antibody at 1:1000 dilution.

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	Antibodies ; Primary Antibodies ; Polyclonal Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	172045844
NCBI GeneID	2879
UniProt Accession #	P36969 ; O43381 ; Q6PJ59 ; Q9UPK2
Molecular Weight	Observed MW: 22kDa Calculated MW: 19kDa/22kDa
NCBI Official Full Name	Phospholipid hydroperoxide glutathione peroxidase, mitochondrial
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.

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

Online datasheet: <https://stage.aaabiotech.com/polyclonal/gpx4-antibody-western-blot-immunofluorescence-elisa/22318>