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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Product Number	ARP58473_P050-Biotin
Product Page	www.avivasysbio.com/gpx4-antibody-middle-region-biotin-arp58473-p050-biotin.html
Name	GPX4 Antibody - middle region : Biotin (ARP58473_P050-Biotin)
Protein Size (# AA)	197 amino acids
Molecular Weight	22kDa
Conjugation	Biotin
NCBI Gene Id	2879
Host	Rabbit
Clonality	Polyclonal
Concentration	0.5 mg/ml
Gene Full Name	Glutathione peroxidase 4
Alias Symbols	MCSP, SMDS, GPx-4, PHGPx, snGPx, GSHPx-4, snPHGPx
Peptide Sequence	Synthetic peptide located within the following region: QUGKTEVNYTQLVDLHARYAECGLRILAFPCNQFGKQEPGSNEEIKFEAA
Product Format	Liquid. Purified antibody supplied in 1x PBS buffer.
Reference	Peters,U., (2008) Cancer Epidemiol. Biomarkers Prev. 17 (5), 1144-1154
Description of Target	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.
Protein Interactions	UBC; PRDX6; MAPK13; OTUD5;
Reconstitution and Storage	All conjugated antibodies should be stored in light-protected vials or covered with a light protecting material (i.e. aluminum foil). Conjugated antibodies are stable for at least 12 months at 4C. If longer storage is desired (24 months), conjugates may be diluted with up to 50% glycerol and stored at -20C to -80C. Freezing and thawing conjugated antibodies will compromise enzyme activity as well as antibody binding.
Datasheets/Manuals	Printable datasheet for anti-GPX4 (ARP58473_P050-Biotin) antibody
Additional Information	IHC Information: Human Testis (formalin-fixed, paraffin-embedded) stained with GPX4 antibody ARP58473_P050 at 2.5 ug/ml followed by biotinylated anti-goat IgG secondary antibody LS-D3, alkaline phosphatase-streptavidin and chromogen. IHC Information: Heart
Blocking Peptide	For anti-GPX4 (ARP58473_P050-Biotin) antibody is Catalog# AAP58473 (Previous Catalog# AAPP34569)
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human GPX4
Uniprot ID	P36969
Protein Name	Phospholipid hydroperoxide glutathione peroxidase, mitochondrial
Sample Type Confirmation	GPX4 is supported by BioGPS gene expression data to be expressed in HepG2

Protein Accession #	NP_002076
Purification	Affinity Purified
Nucleotide Accession #	NM_002085
Gene Symbol	GPX4
Predicted Species Reactivity	Human, Mouse, Rat, Cow, Goat, Guinea Pig, Yeast, Zebrafish
Application	IHC, WB
Predicted Homology Based on Immunogen Sequence	Cow: 86%; Goat: 86%; Guinea Pig: 86%; Human: 100%; Mouse: 86%; Rat: 86%; Yeast: 93%; Zebrafish: 86%
Image 1	

AVIVA SYSTEMS BIOLOGY manufactures and sells quality antibody products covering genome wide proteins.

This product is for Research Use Only. Not for diagnostic, human, or veterinary use.
Optimal conditions of its use should be determined by end users.

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