

Product datasheet for **TA344322**

Glutathione Peroxidase 4 (GPX4) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB, IHC
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-GPX4 antibody: synthetic peptide directed towards the middle region of human GPX4. Synthetic peptide located within the following region: QUGKTEVNYTQLVDLHARYAECGLRILAFPCNQFGKQEPGSNEEIKEFAA
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	22 kDa
Gene Name:	glutathione peroxidase 4
Database Link:	NP_002076 Entrez Gene 2879 Human P36969



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Background:

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.

Synonyms:

GPx-4; GSHPx-4; MCSP; PHGPx; snGPx; snPHGPx

Note:

Immunogen Sequence Homology: Human: 100%; Yeast: 93%; Pig: 86%; Rat: 86%; Goat: 86%; Mouse: 86%; Bovine: 86%; Zebrafish: 86%; Guinea pig: 86%

Protein Families:

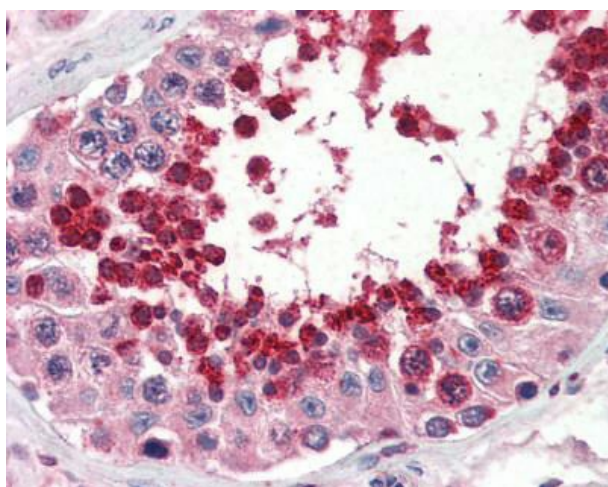
Druggable Genome

Protein Pathways:

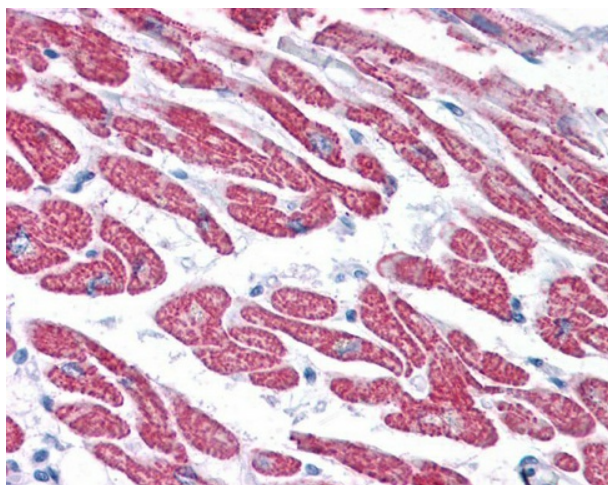
Arachidonic acid metabolism, Glutathione metabolism

Product images:

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



Immunohistochemistry with Rat Brain lysate tissue



Immunohistochemistry with Heart cell lysate tissue at an antibody concentration of 5.0 ug/ml using anti-GPX4 antibody