



## Rabbit Anti-Human GPX4 Polyclonal Antibody (CABT-L2248)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

antibody is a rabbit polyclonal antibody raised against GPX4. It has been selected for its ty to recognize GPX4 in immunohistochemical staining and western blotting.
44
ombinant fragment corresponding to human GPX4 (Gly74~Phe197)
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nan, Mouse
gen-specific affinity chromatography followed by Protein A affinity chromatography
onjugated
id
specific
нд
plied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
% Proclin-300

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Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

## **BACKGROUND**

Introduction	This gene encodes a member of the glutathione peroxidase protein family. 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. The encoded protein has been identified as a moonlighting protein based on its ability to serve dual functions as a peroxidase as well as a structural protein in mature spermatozoa. Through alternative splicing and transcription initiation, rat produces proteins that localize to the nucleus, mitochondrion, and cytoplasm. In humans, alternative transcription initiation and the cleavage sites of the mitochondrial and nuclear transit peptides need to be experimentally verified. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]
Keywords	MCSP;PHGPx;SnGPx;SnPHGPx;Phospholipid Hydroperoxidase;Phospholipid hydroperoxide glutathione peroxidase, mitochondrial

## **GENE INFORMATION**

GPX4 glutathione peroxidase 4 [ Homo sapiens (human) ]
GPX4
GPX4; glutathione peroxidase 4; MCSP; GPx-4; PHGPx; snGPx; GSHPx-4; snPHGPx; phospholipid hydroperoxide glutathione peroxidase, mitochondrial; phospholipid hydroperoxidase; sperm nucleus glutathione peroxidase;
<u>2879</u>
NP_001034936
<u>P36969</u>
19p13.3
Arachidonic acid metabolism; Folate Metabolism; Glutathione metabolism; Metabolism; Metabolism of lipids and lipoproteins; Selenium Metabolism and Selenoproteins; Selenium Pathway; Synthesis of 12-eicosatetraenoic acid derivatives;

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Function	glutathione binding; glutathione peroxidase activity; phospholipid-hydroperoxide glutathione peroxidase activity; selenium binding;