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GPX3 Recombinant Rabbit mAb

Catalog # AP100167

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P22352
Other Accession	P22352
Reactivity	Rat, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	25552
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the glutathione peroxidase family.
SUBUNIT	Homotetramer.
Post-translational modifications	The N-terminus is blocked.
Background Descriptions	The protein encoded by this gene belongs to the glutathione peroxidase family, members of which catalyze the reduction of organic hydroperoxides and hydrogen peroxide (H2O2) by glutathione, 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 is secreted, and is abundantly found in plasma. Downregulation of expression of this gene by promoter hypermethylation has been observed in a wide spectrum of human malignancies, including thyroid cancer, hepatocellular carcinoma and chronic myeloid leukemia. 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, designa

Additional Information

Gene ID	2878
Other Names	GPX3_HUMAN; GPX3; GPx-3; GSHPx-3; Extracellular glutathione peroxidase; Plasma glutathione peroxidase (GPx-P | GSHPx-P); 1.11.1.9; GPXP; GPx-P; GSHPx-P; glutathione peroxidase 3; glutathione peroxidase 3 (plasma); selenoprotein GPX3; Glutathione peroxidase 3 (GPx-3) (GSHPx-3) (Extracellular glutathione peroxidase) (Plasma glutathione peroxidase) (GPx-P) (GSHPx-P)
Dilution	IHC-P=1:50-200,IHC-F=1:50-200,WB=1:500-2000,IF=1:50-200,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name	GPX3 (HGNC:4555)
Synonyms	GPXP
Function	Protects cells and enzymes from oxidative damage, by catalyzing the reduction of hydrogen peroxide, lipid peroxides and organic hydroperoxide, by glutathione.
Cellular Location	Secreted.
Tissue Location	Secreted in plasma.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.