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GPX1 Antibody

Rabbit mAb
Catalog # AP91033

Product Information

Application	WB, IHC, IF, ICC, IP, IHF
Primary Accession	P07203
Reactivity	Rat, Human
Clonality	Monoclonal
Other Names	GPX1; GSHPX1; MGC14399; MGC88245 ; Glutathione Peroxidase 1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	22088

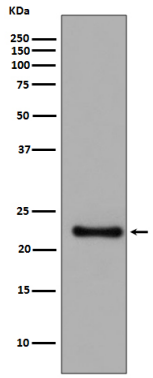
Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human GPX1
Description	Glutathione peroxidase 1 (GPX1) is a cytosolic selenoprotein which reduces hydrogen peroxide to water. GPX1 is the most abundant and ubiquitous among the five GPX isoforms identified so far. It is an important component in the anti-oxidative defense in cells and is associated with a variety of disease conditions, such as colon cancer, coronary artery disease and insulin resistance.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	GPX1 (HGNC:4553)
Function	Catalyzes the reduction of hydroperoxides in a glutathione- dependent manner thus regulating cellular redox homeostasis (PubMed:11115402, PubMed:36608588). Can reduce small soluble hydroperoxides such as H2O2, cumene hydroperoxide and tert-butyl hydroperoxide, as well as several fatty acid-derived hydroperoxides (PubMed:11115402, PubMed:36608588). In platelets catalyzes the reduction of 12-hydroperoxyeicosatetraenoic acid, the primary product of the arachidonate 12-lipoxygenase pathway (PubMed:11115402).
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:P11352}. Mitochondrion {ECO:0000250|UniProtKB:P11352}
Tissue Location	Expressed in platelets (at protein level).

Images



Western blot analysis of GPX1 expression in SH SY5Y cell lysate.