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Glutathione Peroxidase 2 Antibody

Rabbit mAb
Catalog # AP92000

Product Information

Application	WB, IHC
Primary Accession	P18283
Reactivity	Human
Clonality	Monoclonal
Other Names	GI GPx; GPRP; GPRP-2; GPx-GI; GPX2; GSHPx 2; GSHPx GI; GSHPx-2; GSHPx-GI;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	21954

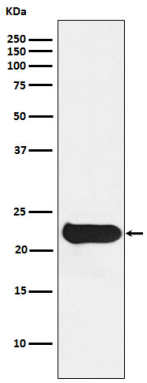
Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Glutathione Peroxidase 2
Description	Could play a major role in protecting mammals from the toxicity of ingested organic hydroperoxides. Tert-butyl hydroperoxide, cumene hydroperoxide and linoleic acid hydroperoxide but not phosphatidycholine hydroperoxide, can act as acceptors.
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	GPX2 {ECO:0000303|Ref.9, ECO:0000312|HGNC:HGNC:4554}
Function	Catalyzes the reduction of hydroperoxides in a glutathione- dependent manner thus regulating cellular redox homeostasis (PubMed:36608588, PubMed:8428933). Can reduce small soluble hydroperoxides such as H2O2, cumene hydroperoxide and tert-butyl hydroperoxide, as well as several fatty acid-derived hydroperoxides (PubMed:36608588, PubMed:8428933). Cannot reduce phosphatidycholine hydroperoxide (PubMed:8428933).
Cellular Location	Cytoplasm, cytosol.
Tissue Location	Mostly in liver and gastrointestinal tract, not found in heart or kidney.

Images



Western blot analysis of Glutathione Peroxidase 2 expression in Human stomach lysate.