ABclonal Technology®

Glutathione Peroxidase 2 Rabbit mAb

Catalog No.: A11171   Recombinant

Basic Information

Observed MW
23kDa

Calculated MW
22kDa

Category
Primary antibody

Applications
ELISA,WB

Cross-Reactivity
Human

CloneNo number
ARC1801

Background

The protein encoded by this gene belongs to the glutathione peroxidase family, members of which catalyze the reduction of organic hydroperoxides and hydrogen peroxide (H_2O_2) 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 predominantly expressed in the gastrointestinal tract (also in liver in human), is localized in the cytoplasm, and whose preferred substrate is hydrogen peroxide. Overexpression of this gene is associated with increased differentiation and proliferation in colorectal cancer. 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, designated the Sec insertion sequence (SECIS) element, that is necessary for the recognition of UGA as a Sec codon, rather than as a stop signal. Alternatively spliced transcript variants have been found for this gene.

Recommended Dilutions

WB   1:500 - 1:1000

Immunogen Information

Gene ID
2877

Swiss Prot
P18283

Immunogen
A synthetic peptide corresponding to a sequence within amino acids 70-174 of human Glutathione Peroxidase 2 (NP_002074.2).

Synonyms
GPRP; GPx-2; GI-GPx; GPRP-2; GPx-GI; GSHPx-2; GSHPX-GI; Glutathione Peroxidase 2

Contact

Product Information

Source
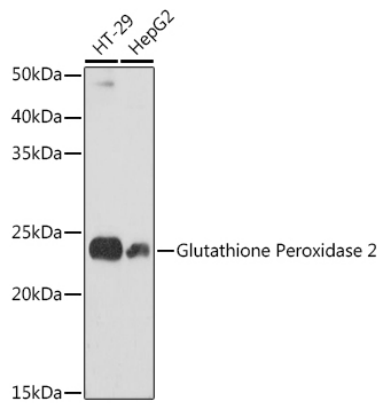Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

Validation Data

Western blot analysis of various lysates, using Glutathione Peroxidase 2 Rabbit mAb (A11171) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 180s.