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Goat Anti-Glutathione peroxidase 2 (Int) Antibody

Peptide-affinity purified goat antibody
Catalog # AF1485a

Specification

Goat Anti-Glutathione peroxidase 2 (Int) Antibody - Product Information

Application	**WB**
Primary Accession	P18283
Other Accession	NP_002074, 2877
Reactivity	**Human**
Predicted	**Mouse, Rat, Pig, Dog, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**21954**

Goat Anti-Glutathione peroxidase 2 (Int) Antibody - Additional Information

Gene ID 2877

Other Names
Glutathione peroxidase 2, GPx-2, GSHPx-2, 1.11.1.9, Gastrointestinal glutathione peroxidase, Glutathione peroxidase-gastrointestinal, GPx-GI, GSHPx-GI, Glutathione peroxidase-related protein 2, GPRP-2, GPX2

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-Glutathione peroxidase 2 (Int) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Glutathione peroxidase 2 (Int) Antibody - 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:8428933, 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:8428933, PubMed:36608588). Cannot reduce phosphatidycholine hydroperoxide (PubMed:8428933).

Cellular Location
Cytoplasm, cytosol.

Tissue Location
Mostly in liver and gastrointestinal tract, not found in heart or kidney.

Goat Anti-Glutathione peroxidase 2 (Int) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-Glutathione peroxidase 2 (Int) Antibody - Images

AF1485a staining (0.5 µg/ml) of Human Liver lysate (RIPA buffer, 30 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

Goat Anti-Glutathione peroxidase 2 (Int) Antibody - Background

This gene is a member of the glutathione peroxidase family and encodes a selenium-dependent glutathione peroxidase that is one of two isoenzymes responsible for the majority of the glutathione-dependent hydrogen peroxide-reducing activity in the epithelium of the gastrointestinal tract. Studies in knockout mice indicate that mRNA expression levels respond to luminal microflora, suggesting a role of the ileal glutathione peroxidases in preventing inflammation in the GI tract.

Goat Anti-Glutathione peroxidase 2 (Int) Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.
Glutathione pathway genetic polymorphisms and lung cancer survival after platinum-based chemotherapy. Moyer AM, et al. Cancer Epidemiol Biomarkers Prev, 2010 Mar. PMID 20200426.
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Association between genetic variants in VEGF, ERCC3 and occupational benzene haematotoxicity. Hosgood HD 3rd, et al. Occup Environ Med, 2009 Dec. PMID 19773279.
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