

Anti-Glutathione Peroxidase 2 Antibody

Catalog # ABO11120

Specification

Anti-Glutathione Peroxidase 2 Antibody - Product Information

Application WB, ICC, IHC

Primary Accession P18283
Host Rabbit

Reactivity Human, Mouse, Rat

Clonality Polyclonal Lyophilized

Description

Rabbit IgG polyclonal antibody for Glutathione peroxidase 2(GPX2) detection. Tested with WB, IHC(P), ICC in Human; Mouse; Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Glutathione Peroxidase 2 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

Calculated MW

21954 MW KDa

Application Details

Immunocytochemistry , 0.5-1 μ g/ml, Human, Rat
br>Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Rat, Mouse, By Heat
br>Western blot, 0.1-0.5 μ g/ml, Human, Rat, Mouse
br>

Subcellular Localization

Cytoplasm. Mainly cytoplasmic.

Tissue Specificity

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

Protein Name

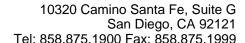
Glutathione peroxidase 2(GPx-2)

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human Glutathione





Peroxidase 2(44-60aa TRDFTQLNELQCRFPRR), different from the related mouse sequence by two amino acids and from related rat sequence by one amino acid.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the glutathione peroxidase family.

Anti-Glutathione Peroxidase 2 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: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.

Anti-Glutathione Peroxidase 2 Antibody - Protocols

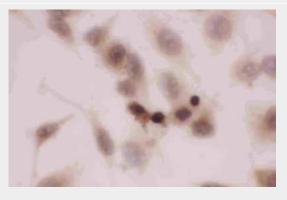
Provided below are standard protocols that you may find useful for product applications.

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

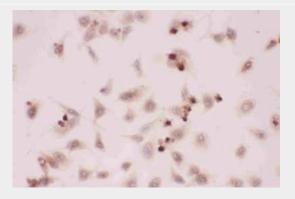
Anti-Glutathione Peroxidase 2 Antibody - Images



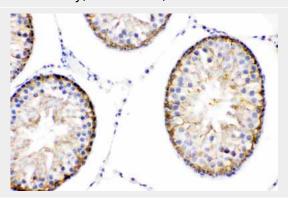
Anti-Glutathione Peroxidase 2 antibody, ABO11120, Western blottingLane 1: Rat liver Tissue LysateLane 2: SW620 Cell Lysate



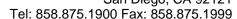
Anti-Glutathione Peroxidase 2 antibody, ABO11120, ICCICC: HELA Cell



Anti-Glutathione Peroxidase 2 antibody, ABO11120, ICCICC: HELA Cell









Anti-Glutathione Peroxidase 2 antibody, ABO11120, IHC(P)IHC(P): Rat Testis Tissue

Anti-Glutathione Peroxidase 2 Antibody - Background

GPX2(glutathione peroxidase 2(gastrointestinal)) also known as GSHPX-GI or GLUTATHIONE PEROXIDASE, GASTROINTESTINAL, Â is a member of the glutathione peroxidase family encoding 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. The GPX2Â gene is mapped to chromosome 14 by Southern analysis of human/hamster somatic cell hybrids. Gpx6 is aselenoprotein in humans with cysteine-containing homologues in rodents.Â