

# GPX2 Rabbit Polyclonal Antibody



CAB15999

## Product Information

### Size:

20uL, 50uL, 100uL, 200uL

### Observed MW:

21kDa

### Calculated MW:

21kDa

### Applications:

WB IHC

### Reactivity:

Human, Mouse, Rat

## Antibody Information

### Recommended dilutions:

WB 1:500 - 1:2000 IHC 1:50 - 1:200

### Source:

Rabbit

### Isotype:

IgG

### Purification:

Affinity purification

## Protein 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<sub>2</sub>O<sub>2</sub>) 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.

## Immunogen information

### Gene ID:

2877

### Uniprot

P18283

### Synonyms:

GPX2; GI-GPx; GPRP; GPRP-2; GPx-2; GPx-GI; GSHPX-GI; GSHPx-2

### Immunogen:

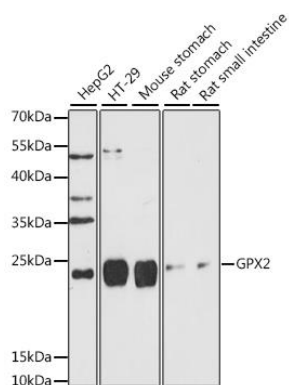
Recombinant fusion protein containing a sequence corresponding to amino acids 100-180 of human GPX2 (NP\_002074.2).

### Storage:

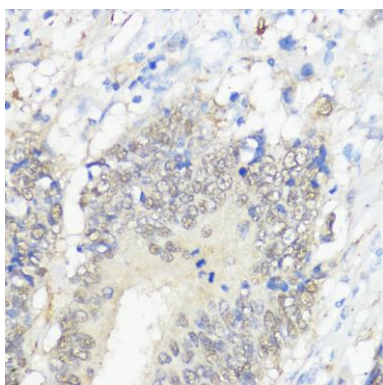
Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

## Product Images

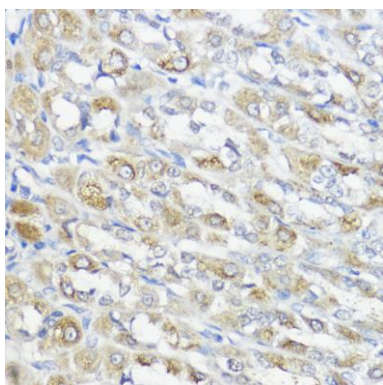
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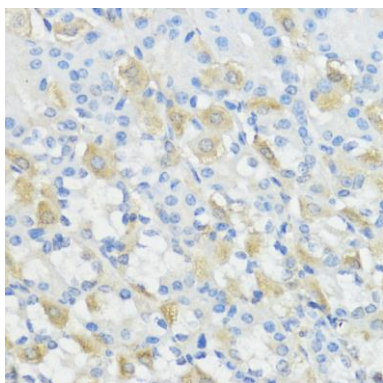
Western blot analysis of extracts of various cell lines, using GPX2 antibody (CAB15999) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 90s.



Immunohistochemistry of paraffin-embedded human colon carcinoma using GPX2 antibody (CAB15999) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded rat stomach using GPX2 antibody (CAB15999) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded mouse stomach using GPX2 antibody (CAB15999) at dilution of 1:100 (40x lens).