

Datasheet for ABIN7258828

**anti-Glutathione Peroxidase 2 antibody****3** Images[Go to Product page](#)

## Overview

Quantity:	200 µL
Target:	Glutathione Peroxidase 2 (GPX2)
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Glutathione Peroxidase 2 antibody is un-conjugated
Application:	Immunohistochemistry (IHC)

## Product Details

Immunogen:	Recombinant fusion protein of human GPX2 (NP_002074.2).
Isotype:	IgG
Characteristics:	Polyclonal Antibody
Purification:	Affinity purification

## Target Details

Target:	Glutathione Peroxidase 2 (GPX2)
Alternative Name:	GPX2 ( <a href="#">GPX2 Products</a> )
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

## Target Details

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.

Gene ID: 2877

UniProt: [P18283](#)

Pathways: [Thyroid Hormone Synthesis](#)

## Application Details

Application Notes: IHC 1:50-1:200

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 1 mg/mL

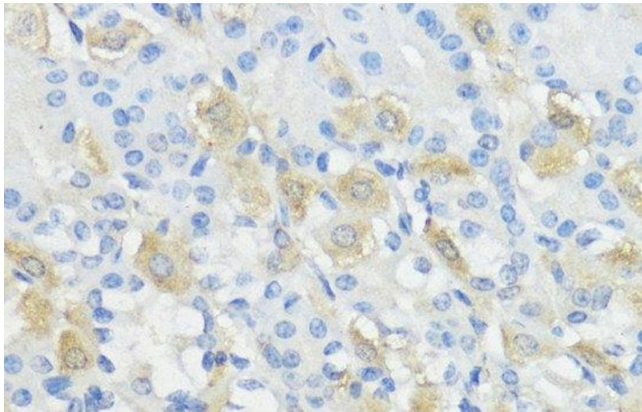
Buffer: PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

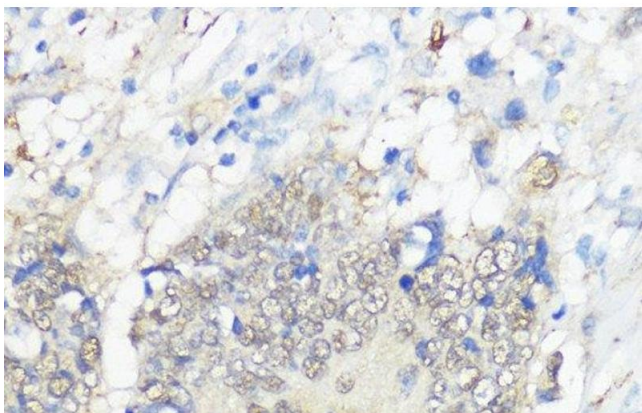
Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



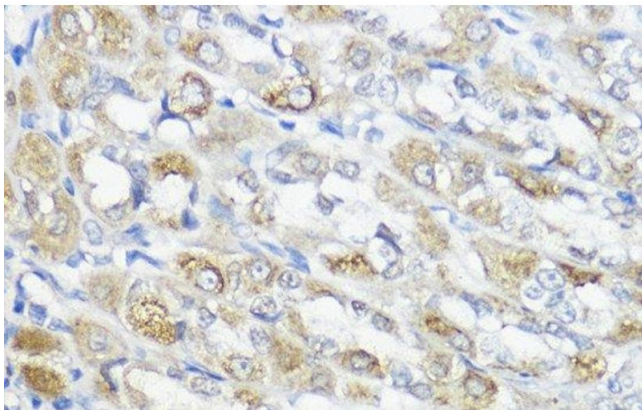
#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Immunohistochemistry of paraffin-embedded Mouse stomach using GPX2 Polyclonal Antibody at dilution of 1:100 (40x lens).



#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 2.** Immunohistochemistry of paraffin-embedded Human colon carcinoma using GPX2 Polyclonal Antibody at dilution of 1:100 (40x lens).



#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** Immunohistochemistry of paraffin-embedded Rat stomach using GPX2 Polyclonal Antibody at dilution of 1:100 (40x lens).