

Datasheet for ABIN7267435

anti-Glutathione Peroxidase 2 antibody (AA 100-180)[Go to Product page](#)**4** Images

Overview

Quantity:	100 µL
Target:	Glutathione Peroxidase 2 (GPX2)
Binding Specificity:	AA 100-180
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Glutathione Peroxidase 2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	GPX2 Rabbit pAb
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 100-180 of human GPX2 (NP_002074.2).
Sequence:	TLVQKCEVNG QNEHPVFAYL KDKLPYPYDD PFSLMTDPKL IIWSPVRRSD VAWNFEKFLI GPEGEPFRRY SRTFPTINIE P
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	Glutathione Peroxidase 2 (GPX2)
Alternative Name:	GPX2 (GPX2 Products)
Background:	<p>The protein encoded by this gene belongs to the glutathione peroxidase family, members of which catalyze the reduction of organic hydroperoxides and hydrogen peroxide (H₂O₂) 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.,GPX2;GI-GPx;GPRP;GPRP-2;GPx-2;GPx-GI;GSHPX-GI;GSHPx-2,Cell Biology & Developmental Biology,Endocrine & Metabolism,GPX2</p>
Molecular Weight:	21kDa
Gene ID:	2877
UniProt:	P18283
Pathways:	Thyroid Hormone Synthesis

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200
Restrictions:	For Research Use only

Handling

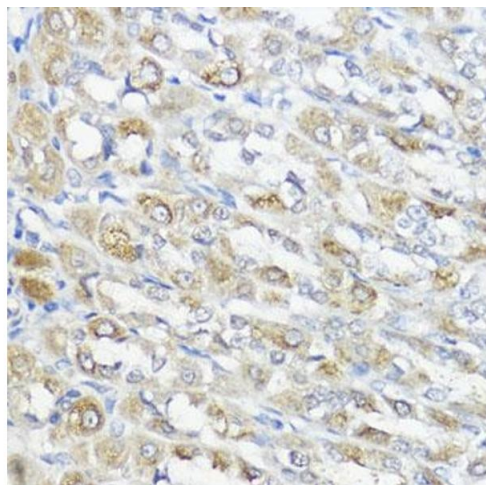
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: -20 °C

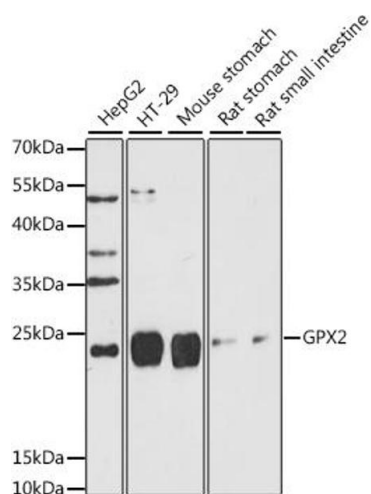
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Images



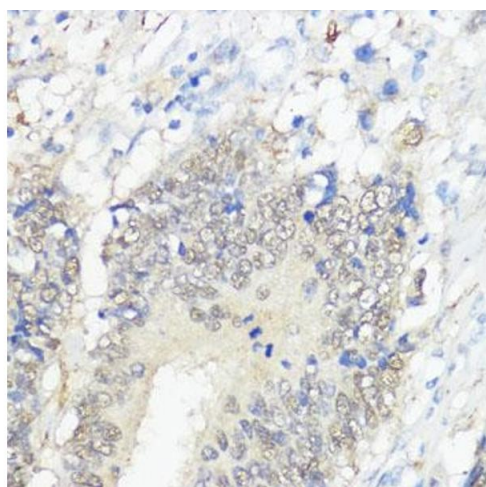
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded rat stomach using GPX2 antibody (ABIN7267435) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using GPX2 antibody (ABIN7267435) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human colon carcinoma using GPX2 antibody (ABIN7267435) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7267435.