Datasheet for ABIN185424

anti-Glutathione Peroxidase 2 antibody (Internal Region)

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Overview

Quantity:	100 µg
Target:	Glutathione Peroxidase 2 (GPX2)
Binding Specificity:	Internal Region
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Application:	ELISA, Western Blotting (WB)

Product Details

Purpose:	Glutathione peroxidase 2 (Int)
Immunogen:	Peptide with sequence C-SLDGEKVDFN, from the internal region of the protein sequence according to NP_002074.2.
Sequence:	SLDGEKVDFN
Isotype:	IgG
Cross-Reactivity:	Cow, Dog, Human, Mouse, Pig, Rat
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Grade:	Verified

Target Details

Target:	Glutathione Peroxidase 2 (GPX2)
Alternative Name:	GPX2 (GPX2 Products)
Background:	GPX2, glutathione peroxidase 2 (gastrointestinal), HGNC:4554, GI-GPx, GSHPX-GI, gastrointestinal glutathione peroxidase 2, GPRP, GSHPx-2, glutathione peroxidase 2, glutathione peroxidase-related protein 2
Gene ID:	2877
NCBI Accession:	NP_002074
Pathways:	Thyroid Hormone Synthesis

Application Details

Application Notes:	Western Blot: Approx 24 kDa band observed in Human Liver lysates (calculated MW of 21.9 kDa according to NP_002074.2). Recommended concentration: 0.5-2 µg/mL. Peptide ELISA: antibody detection limit dilution 1:32000.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Supplied at 0.5 mg/mL in Tris saline, 0.02 % sodium azide, pH 7.3 with 0.5 % bovine serum albumin.
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 Advice:	Minimize freezing and thawing.
Storage:	-20 °C
Storage Comment:	Aliquot and store at -20°C, with minimal freeze/thawing. A working aliquot may be refrigerated at 4°C for a few weeks and still remain viable.

Publications

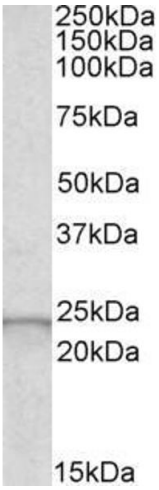
Product cited in:	McGrath-Morrow, Lauer, Yee, Neptune, Podowski, Thimmulappa, OReilly, Biswal: "Nrf2

Publications

increases survival and attenuates alveolar growth inhibition in neonatal mice exposed to hyperoxia." in: **American journal of physiology. Lung cellular and molecular physiology**, Vol. 296, Issue 4, pp. L565-73, (2009) (PubMed).

Naiki-Ito, Asamoto, Hokaiwado, Takahashi, Yamashita, Tsuda, Ogawa, Shirai: "Gpx2 is an overexpressed gene in rat breast cancers induced by three different chemical carcinogens." in: **Cancer research**, Vol. 67, Issue 23, pp. 11353-8, (2007) (PubMed).

Images



Western Blotting

Image 1. ABIN185424 staining (0.5µg/ml) of Human Liver lysate (RIPA buffer, 30µg total protein per lane). Primary incubated for 1 hour. Detected by chemiluminescence.

Western Blotting

Image 2. ABIN185424 staining (1µg/ml) of Human Prostate lysate (RIPA buffer, 30µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.