

Datasheet for ABIN2776848
anti-GPX3 antibody (N-Term)[Go to Product page](#)

2 Images

1 Publication

Overview

Quantity:	100 µL
Target:	GPX3
Binding Specificity:	N-Term
Reactivity:	Mouse, Human, Rat, Pig, Dog, Cow, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GPX3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human GPX3
Sequence:	DCHGGISGTI YEYGALTIDG EEYIPFKQYA GKYVLFVNVA SYUGLTGQYI
Predicted Reactivity:	Cow: 100%, Dog: 83%, Guinea Pig: 79%, Human: 100%, Mouse: 100%, Pig: 93%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against GPX3. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	GPX3
Alternative Name:	GPX3 (GPX3 Products)

Target Details

Background:	<p>GPX3 belongs to the glutathione peroxidase family, which functions in the detoxification of hydrogen peroxide. It contains a selenocysteine (Sec) residue at its active site. The selenocysteine is encoded by the UGA codon, which normally signals translation termination. Glutathione peroxidase catalyzes the reduction of hydrogen peroxide, organic hydroperoxide, and lipid peroxides by reduced glutathione and functions in the protection of cells against oxidative damage. Human plasma glutathione peroxidase has been shown to be a selenium-containing enzyme. GPX3 expression appears to be tissue-specific.</p> <p>Alias Symbols: GPx-P, GSHPx-3, GSHPx-P</p> <p>Protein Interaction Partner: UBQLN1, GPX3,</p> <p>Protein Size: 226</p>
Molecular Weight:	25 kDa
Gene ID:	2878
NCBI Accession:	NM_002084 , NP_002075
UniProt:	P22352
Pathways:	Thyroid Hormone Synthesis

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 226 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
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:	Avoid repeated freeze-thaw cycles.

Handling

Storage: -20 °C

Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in: Palmieri, Gojis, Rudraraju, Stamp-Vincent, Wilson, Langdon, Gourley, Faratian: "Expression of steroid receptor coactivator 3 in ovarian epithelial cancer is a poor prognostic factor and a marker for platinum resistance." in: **British journal of cancer**, Vol. 108, Issue 10, pp. 2039-44, (2013) ([PubMed](#)).

Viringipurampeer, Ferreira, DeMaria, Yoon, Shan, Moosajee, Gregory-Evans, Ngai, Gregory-Evans: "Pax2 regulates a fadd-dependent molecular switch that drives tissue fusion during eye development." in: **Human molecular genetics**, Vol. 21, Issue 10, pp. 2357-69, (2012) ([PubMed](#)).

Lee, Doberstein, Baumgarten, Wieland, Ungerer, Bürger, Hardt, Boehncke, Pfeilschifter, Mihic-Probst, Mittelbronn, Gutwein: "PAX2 regulates ADAM10 expression and mediates anchorage-independent cell growth of melanoma cells." in: **PLoS ONE**, Vol. 6, Issue 8, pp. e22312, (2011) ([PubMed](#)).

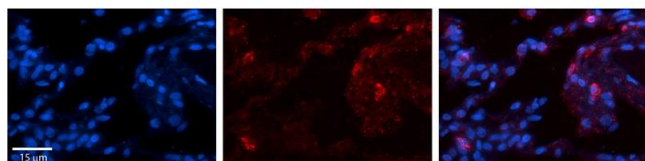
Yu, Moriniere, Birke, Neumann, Fuchshofer, Kampik, Bloemendal, Welge-Lüssen: "Reactivation of optic nerve head astrocytes by TGF-beta2 and H2O2 is accompanied by increased Hsp32 and Hsp47 expression." in: **Investigative ophthalmology & visual science**, Vol. 50, Issue 4, pp. 1707-17, (2009) ([PubMed](#)).

Hurtado, Holmes, Geistlinger, Hutcheson, Nicholson, Brown, Jiang, Howat, Ali, Carroll: "Regulation of ERBB2 by oestrogen receptor-PAX2 determines response to tamoxifen." in: **Nature**, Vol. 456, Issue 7222, pp. 663-6, (2008) ([PubMed](#)).



Western Blotting

Image 1. WB Suggested Anti-GPX3 Antibody Titration: 0.2-1 ug/ml Positive Control: HepG2 cell lysate GPX3 is strongly supported by BioGPS gene expression data to be expressed in Human HepG2 cells



Immunohistochemistry

Image 2. Rabbit Anti-GPX3 Antibody Formalin Fixed Paraffin Embedded Tissue: Human Lung Tissue Observed Staining: Membrane and cytoplasmic in alveolar type I & II cells Primary Antibody Concentration: 1:100 Other Working Concentrations: 1/600 Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 - 2.0 sec