

Datasheet for ABIN185669
anti-GPX4 antibody (C-Term)[2 Images](#)[2 Publications](#)[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	GPX4
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunoprecipitation (IP)

Product Details

Purpose:	GPX4 (Isoform a and c)
Immunogen:	Peptide with sequence C-EEPLVIEKDLPHY, from the C Terminus of the protein sequence according to NP_002076.2, NP_001034937.1.
Sequence:	EEPLVIEKDL PHY
Isotype:	IgG
Specificity:	This antibody is expected to recognise isoform A (NP_002076.2) and isoform C (NP_001034937.1).
Cross-Reactivity:	Cow, 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:	GPX4
Alternative Name:	GPX4 (GPX4 Products)
Background:	GPX4, glutathione peroxidase 4 (phospholipid hydroperoxidase) , HGNC:4556, PHGPx, snGPx, glutathione peroxidase 4, phospholipid hydroperoxidase, sperm nucleus glutathione peroxidase
Gene ID:	2879
NCBI Accession:	NP_002076 , NP_001034937

Application Details

Application Notes:	<p>Immunohistochemistry: In paraffin embedded Human Testis shows strong staining surrounding the nuclei of spermatocytes and surrounding spermatozoa. Recommended concentration: 0.3 µg/mL.</p> <p>Western Blot: Approx 19 kDa band observed in Human Kidney and Testis lysates and in lysates of cell line HEK293 (calculated MW of 22.1 kDa according to NP_002076.2). Recommended concentration: 0.1-0.3 µg/mL. This antibody has been successfully used in WB on Peptide ELISA: antibody detection limit dilution 1:16000.</p>
Comment:	Immunoprecipitation: This antibody has been successfully used in IP on Human: Schoenmakers E et al. (2010) PMID:21084748.
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: Papp, Lu, Bolderson, Boucher, Singh, Holmgren, Khanna: "SECIS-binding protein 2 promotes cell survival by protecting against oxidative stress." in: **Antioxidants & redox signaling**, Vol. 12, Issue 7, pp. 797-808, (2010) ([PubMed](#)).

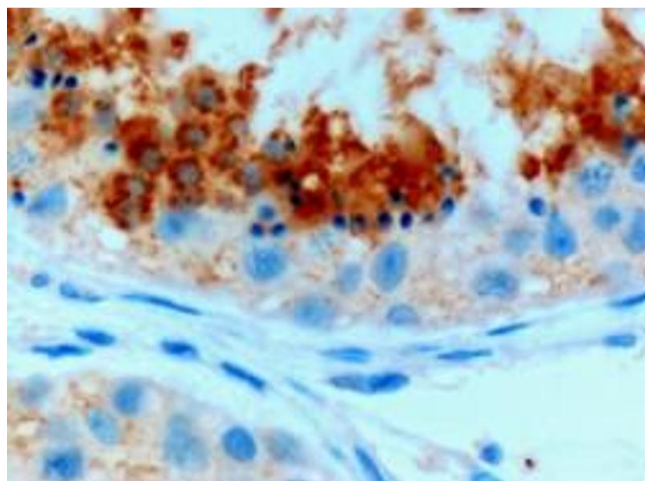
Schoenmakers, Agostini, Mitchell, Schoenmakers, Papp, Rajanayagam, Padidela, Ceron-Gutierrez, Doffinger, Prevosto, Luan, Montano, Lu, Castanet, Clemons, Groeneveld, Castets, Karbaschi, Aitken, Dixon et al.: "Mutations in the selenocysteine insertion sequence-binding protein 2 gene lead to a multisystem selenoprotein deficiency disorder in humans. ..." in: **The Journal of clinical investigation**, Vol. 120, Issue 12, pp. 4220-35, (2010) ([PubMed](#)).

Images



Western Blotting

Image 1. ABIN185669 (0.1 µg/ml) staining of Human Testis lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Immunohistochemistry

Image 2. ABIN185669 (0.3 µg/ml) staining of paraffin embedded Human Testis. Microwaved antigen retrieval with citrate buffer pH 6, HRP-staining.