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Research Use Only. Not for diagnostic or therapeutic use.

Storage: For long-term storage keep aliquots at -20°C. (Store no longer than 12 months at 4°C). Minimize freezing and thawing.

EB07316 - Goat Anti-GPX4 (Isoform a and c) Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: sperm nucleus glutathione peroxidase, phospholipid hydroperoxidase, glutathione peroxidase 4, snGPx, PHGPx, HGNC:4556, glutathione peroxidase 4 (phospholipid hydroperoxidase), GPX4

Official Symbol: GPX4

Accession Number(s): NP_002076.2; NP_001034937.1

Human GeneID(s): [2879](#)

Important Comments: This antibody is expected to recognise isoform A (NP_002076.2) and isoform C (NP_001034937.1).

Immunogen

Peptide with sequence C-EEPLVIEKDLPHY, from the C Terminus of the protein sequence according to NP_002076.2; NP_001034937.1.

Please note the [peptide](#) is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:16000.

Western blot: Approx 19kDa band observed in Human Kidney and Testis lysates and in lysates of cell line HEK293 (calculated MW of 22.1kDa according to NP_002076.2).

Recommended concentration: 0.1-0.3µg/ml.

IHC: In paraffin embedded Human Testis shows strong staining surrounding the nuclei of spermatocytes and surrounding spermatozoa. Recommended concentration, 0.3µg/ml.

Species Reactivity

Tested: Human

Expected from sequence similarity: Human, Mouse, Rat, Pig, Cow

Specific References

This antibody has been successfully used in the following papers:

Papp LV, Lu J, Bolderson E, Boucher D, Singh R, Holmgren A, Khanna KK.

SECIS-binding protein 2 promotes cell survival by protecting against oxidative stress. Antioxid Redox Signal. 2010 Apr 1;12(7):797-808.

PMID: 19803747

Schoenmakers E et. al.

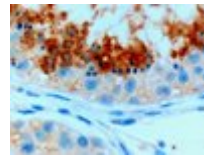
Mutations in the selenocysteine insertion sequence-binding protein 2 gene lead to a multisystem selenoprotein deficiency disorder in humans.

J Clin Invest. 2010 Dec 1;120(12):4220-35.

PMID: 21084748



EB07316 (0.1 μ g/ml) staining of Human Testis lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



EB07316 (0.3 μ g/ml) staining of paraffin embedded Human Testis. Microwaved antigen retrieval with citrate buffer pH 6, HRP-staining.