

## UK Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

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

Size: 100µg specific antibody in 200µl



### Target Protein

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

**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. This antibody has been successfully used in WB on Human: Schoenmakers E et al. (2010) PMID:21084748 and Papp LV et al. (2010) PMID: 19803747.

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

**Immunoprecipitation:** This antibody has been successfully used in IP on Human: Schoenmakers E et al. (2010) PMID:21084748.

### Species Reactivity

**Tested:** Human

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

### Specific References

**This antibody has been successfully used in the following paper:**

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

**This antibody has been successfully used in WB on Human:**

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

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

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