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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 1:128000.
Western blot: Approx 19-20kDa band observed in Human, Mouse and Rat Testis lysates, Human and Rat Kidney lysates, and in preliminary testing of K562 cell lysate (calculated MW of 22.1kDa according to Human NP_002076.2, Mouse NP_032188.3 and Rat NP_058861.3). Recommended concentration: 0.01-1µg/ml. Primary incubation 1 hour at room temperature.
IHC: Paraffin embedded Human Testis. Recommended concentration: 4-6µg/ml.

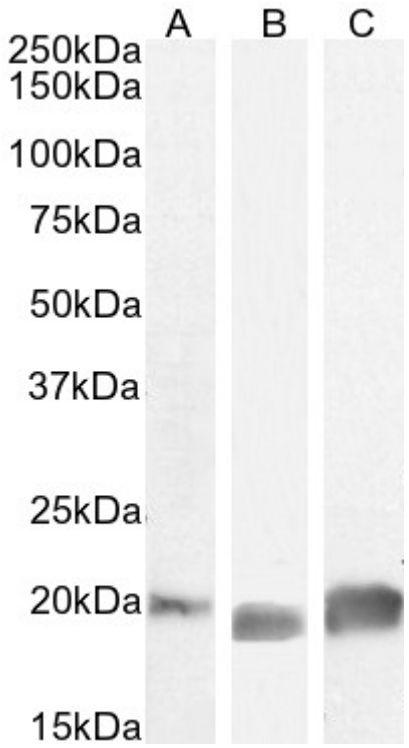
Species Reactivity

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

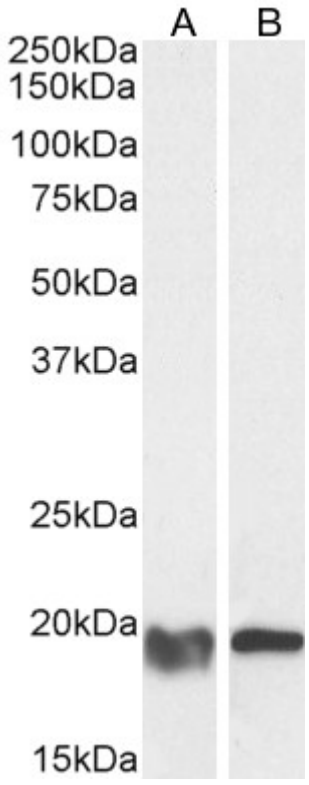
Specific References

This antibody (previous batch) 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

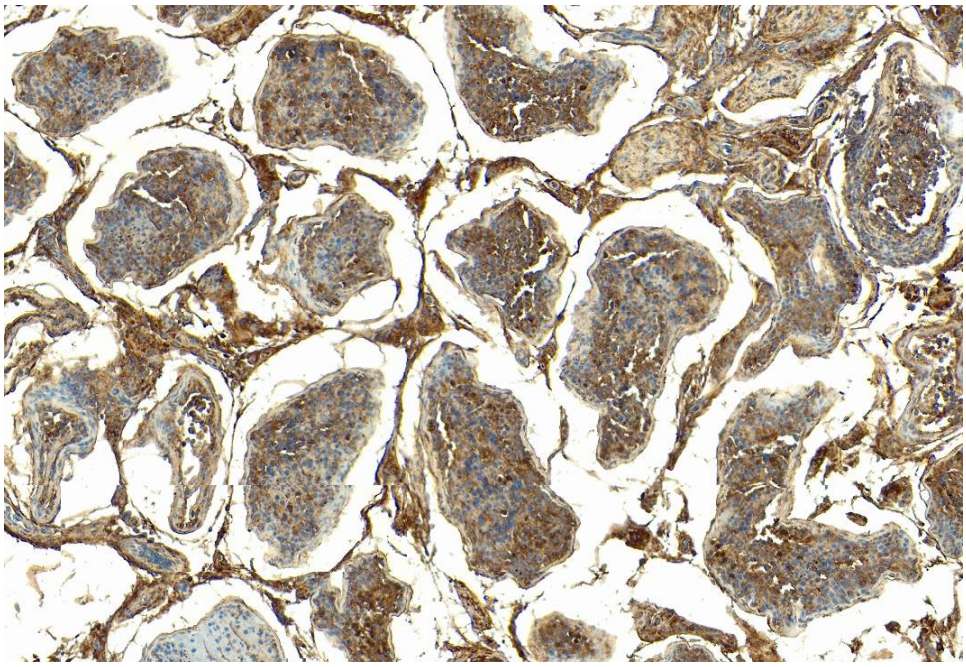
This antibody (previous batch) has been successfully used in WB on Human:
Papp LV, Lu J, Bolderson E, Boucher D, Singh R, Holmgren A, Khanna KK.
SECIS-binding protein 2 promotes cell survival by protecting against oxidative stress.
Antioxid Redox Signal. 2010 Apr 1;12(7):797-808.
PMID: 19803747



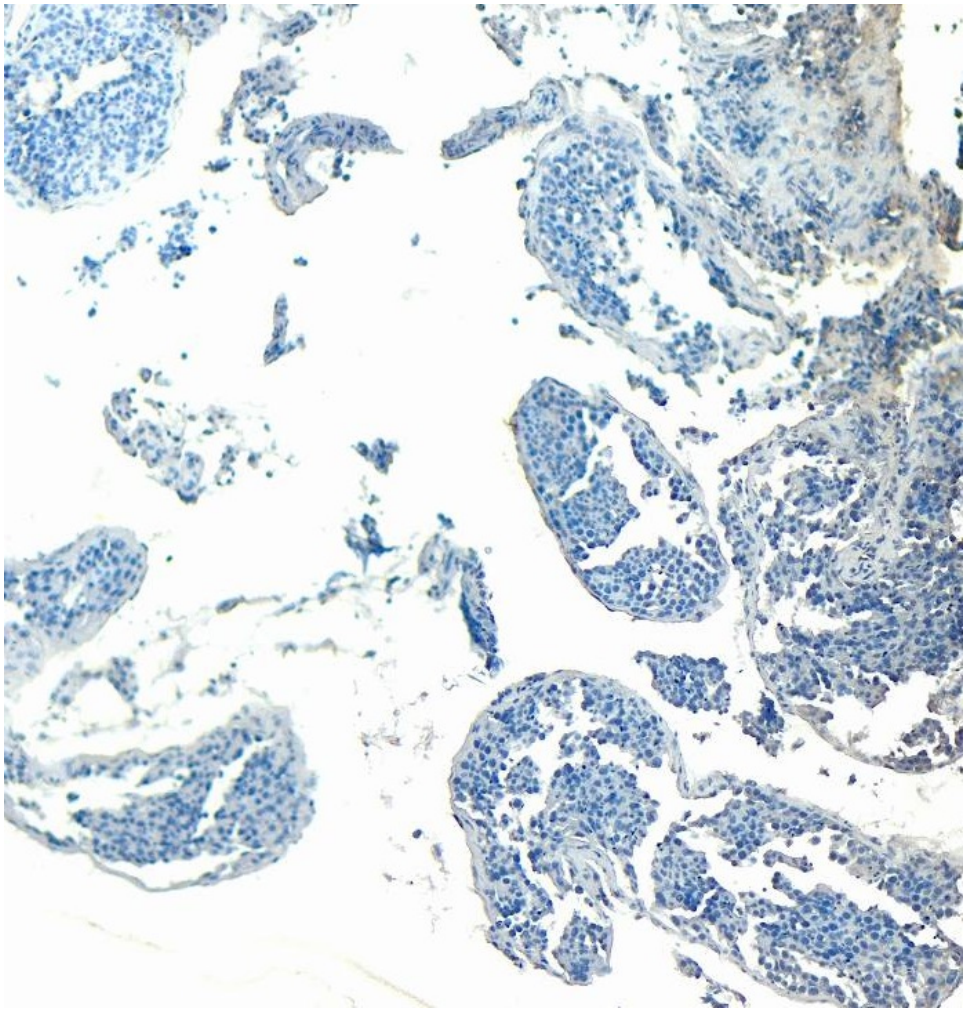
EB07316 (0.03ug/ml) staining of Human (A), Mouse (B) and (0.01ug/ml) Rat (C) Testes lysate. Detected by chemiluminescence.



EB07316 (0.1ug/ml) staining of Human (A) and (1ug/ml) Rat (B) Kidney lysate. Detected by chemiluminescence.



EB07316 (4µg/ml) staining of paraffin embedded Human Testis. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



EB07316 Negative Control showing staining of paraffin embedded Human Testis, with no primary antibody.