

Goat anti-GPX4 (Isoform a and c) Antibody

Item Number	dAP-0921
Target Molecule	Principle Name: GPX4 (Isoform a and c); Official Symbol: GPX4; All Names and Symbols: GPX4; glutathione peroxidase 4 (phospholipid hydroperoxidase) ; HGNC:4556; PHGPx; snGPx; glutathione peroxidase 4; phospholipid hydroperoxidase; sperm nucleus glutathione peroxidase; Accession Number (s): NP_002076.2; NP_001034937.1; Human Gene ID(s): 2879; Non-Human GeneID(s):
Immunogen	EEPLVIEKDLPHY, is from C Terminus This antibody is expected to recognise isoform A (NP_002076.2) and isoform C (NP_001034937.1).
Applications	Pep ELISA, WB, IHC Species Tested: Human
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied As	lyophilized powder of 50ug or 100ug IgG; Reconstitute IgG with 100ul or 200ul sterile DI Water and final product will be formulated as 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.
Peptide ELISA	Peptide ELISA: antibody detection limit dilution 1 to 16000.
Western Blot	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	Immunohistochemistry: In paraffin embedded Human Testis shows strong staining surrounding the nuclei of spermatocytes and surrounding spermatozoa. Recommended concentration, 0.3µg/ml.
Reference	Reference(s): Su D, Novoselov SV, Sun QA, Moustafa ME, Zhou Y, Oko R, Hatfield DL, Gladyshev VN. Mammalian selenoprotein thioredoxin/glutathione reductase: Roles in disulfide bond formation and sperm maturation. J Biol Chem. 2005 May 18; [Epub ahead of print] .PMID: 15901730 ->

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**