

GPX4 Rabbit Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP02883
Host	Rabbit
Isotype	IgG
Size	100ul, 50ul, 20ul
Immunogen	Synthesized peptide derived from human GPX4
Mol wt	N/A
Species reactivity	Human, Rat, Mouse
Clonality	Polyclonal
Recommended application	WB
Concentration	1 mg/ml
Full name	GPX4
Synonyms	GPX4; Phospholipid hydroperoxide glutathione peroxidase; mitochondrial; PHGPx; EC 1.11.1.12; Glutathione peroxidase 4; GPx-4; GSHPx-4

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

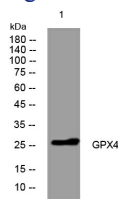
The protein encoded by this gene belongs to the glutathione peroxidase family| members of which catalyze the reduction of hydrogen peroxide| organic hydroperoxides and lipid hydroperoxides| and thereby protect cells against oxidative damage. Several isozymes of this gene family exist in vertebrates| which vary in cellular location and substrate specificity. This isozyme has a high preference for lipid hydroperoxides and protects cells against membrane lipid peroxidation and cell death. It is also required for normal sperm development; thus| it has been identified as a 'moonlighting' protein because of its ability to serve dual functions as a peroxidase| as well as a structural protein in mature spermatozoa. Mutations in this gene are associated with Sedaghatian type of spondylometaphyseal dysplasia (SMDS). This isozyme is also a selenoprotein| containing the rare amino acid selenocysteine (Sec) at its active site. Sec is encoded by the UGA codon| which normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure| designated the Sec insertion sequence (SECIS) element| that is necessary for the recognition of UGA as a Sec codon| rather than as a stop signal. Alternatively spliced transcript variants have been found for this gene.

Recommended Dilution

WB: 1: 500 - 1: 2000

Not yet tested in other applications.

Images



Western blot analysis of lysates from U2OS cells, primary antibody was diluted at 1:1000, 4°C overnight

Storage

-20°C for 1 year

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