

GPX1 polyclonal antibody

Catalog: BS61511

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Glutathione peroxidase (GPx) enzymes are generally selenium-containing tetrameric glycoproteins that help prevent lipid peroxidation of cell membranes. GPx enzymes reduce lipid hydroperoxides to alcohols, and reduce free hydrogen peroxide to water. GPx members are among the few proteins known in higher vertebrates to contain selenocysteine, which occurs at the active site of glutathione peroxidase and is coded by the nonsense (stop) codon TGA. There are eight GPx homologs (GPx-1-8). GPx-1 plays an important role in the antioxidant defense of the vascular wall and neural cells in response to oxidative stress. GPx-2 is the major isoform in the lungs and its basal or inducible expression is dependent on Nrf2. GPx-3 is under regulation by hypoxic stress and the expression and deficiency of GPx-3 is associated with cardiovascular disease and stroke. GPx-5 is selenium-independent; it is bound to the acrosome of sperm, where it may protect sperm from premature acrosome reaction in the epididymis.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.3.

Molecular Weight:

~ 22 kDa

Swiss-Prot:

P07203

Purification&Purity:

The antibody was affinity-purified from rabbit ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

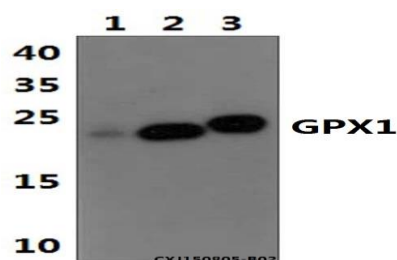
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

GPX1 polyclonal antibody detects endogenous levels of GPX1 protein.

DATA:



Western blot (WB) analysis of GPX1 polyclonal antibody at 1:500 dilution

Lane1:THP-1 whole cell lysate(60ug)

Lane2:The Liver tissue lysate of Mouse(40ug)

Lane3:The Liver tissue lysate of Rat(40ug)

Note:

For research use only, not for use in diagnostic procedure.

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