

GPX1 Mouse monoclonal antibody

Catalog: MB9027

Host: Mouse

Reactivity: Human

Background:

GPX1 is ubiquitously expressed in many tissues, where it protects cells from oxidative stress. Within cells, it localizes to the cytoplasm and mitochondria. As a glutathione peroxidase, GPx1 functions in the detoxification of hydrogen peroxide, specifically by catalyzing the reduction of hydrogen peroxide to water. The glutathione peroxidase also catalyzes the reduction of other organic hydroperoxides, such as lipid peroxides, to the corresponding alcohols. GPx1 typically uses glutathione (GSH) as the reductant, but when glutathione synthetase (GSS) is, as in brain mitochondria, γ -glutamylcysteine can serve as the reductant instead. The protein encoded by this gene protects from CD95-induced apoptosis in cultured breast cancer cells and inhibits 5-lipoxygenase in blood cells, and its overexpression delays endothelial cell death and increases resistance to toxic challenges, especially oxidative stress.

Product:

Mouse IgG2b, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 22 kDa

Swiss-Prot:

P07203

Purification&Purity:

Protein A affinity purified

Applications:

WB: 1:1000

IHC/ICC: 1:200

FC: 1:100-1:200

Storage&Stability:

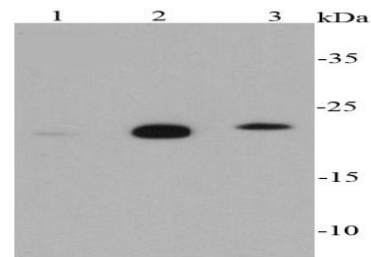
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

This antibody detects endogenous levels of GPX1 and

does not cross-react with related proteins.

DATA:

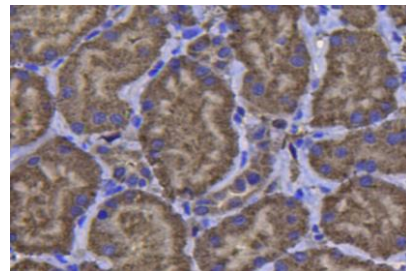


Western blot (WB) analysis of GPX1 Mouse mAb at 1:500 dilution

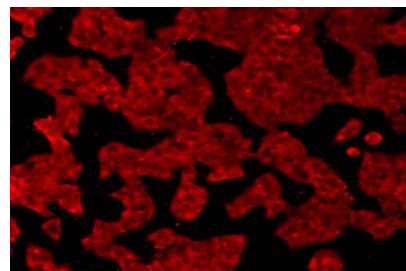
Lane1:THP-1 whole cell lysate

Lane2:HepG2 whole cell lysate

Lane3:293T whole cell lysate



Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-GPX1 antibody. Counter stained with hematoxylin.



ICC staining GPX1 in HeLa cells (red). =Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.

Note:

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

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PRODUCT DATA SHEET

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