Glutathione Peroxidase 1 Rabbit mAb

Catalog No: #49298

Package Size: #49298-1 50ul #49298-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

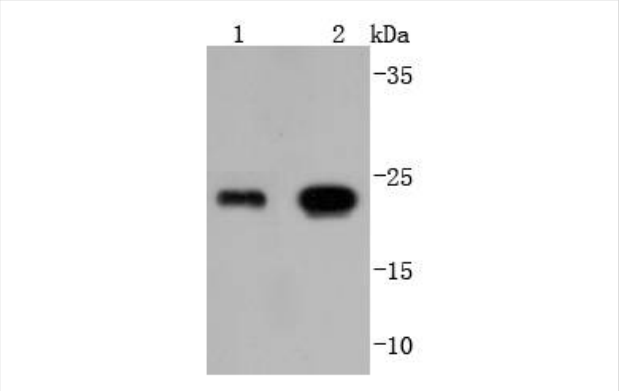
Description

Product Name	Glutathione Peroxidase 1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JJ092-07
Purification	ProA affinity purified
Applications	WB, IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	AL033363 antibody Cellular glutathione peroxidase antibody Glutathione peroxidase 1 antibody Glutathione peroxidase antibody GPx 1 antibody GPx-1 antibody GPX1 antibody GPX1_HUMAN antibody GPXD antibody GSHPx-1 antibody GSHPX1 antibody MGC14399 antibody MGC88245 antibody
Accession No.	Swiss-Prot#:P07203
Uniprot	P07203
GeneID	2876;
Calculated MW	22 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

WB: 1:1,000-1:2,000

Images



Western blot analysis of Glutathione Peroxidase 1 on different lysates using anti-Glutathione Peroxidase 1 antibody at 1/1,000 dilution. Positive control: Lane 1: HepG2 Lane 2: THP-1

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, Gpx-2 and Gpx-3 exist as homotetramers. Gpx-4 has a high tendancy to form high molecular weight oligomers. 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.

References

Note: This product is for in vitro research use only