



Rabbit Anti-GPX1 monoclonal antibody, clone KG1055 (CABT-L865)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	Glutathione Peroxidase 1
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Rat
Clone	KG1055
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, ICC/IF, IHC, IP
Molecular Weight	22 kDa
Cellular Localization	Cytoplasm.
Positive Control	THP-1, 293, HepG2, 293T, human liver tissue, human tonsil tissue, human breast carcinoma tissue, human kidney tissue, mouse colon tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.

Preservative	0.05% Sodium Azide
Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction	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 tendency 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.
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Keywords	AL033363;Cellular glutathione peroxidase;Glutathione peroxidase 1;Glutathione peroxidase;GPx 1;GPx-1;GPX1;GPX1_HUMAN;GPXD;GSHPx-1;GSHPX1;MGC14399;MGC88245 antibody
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