



# GPX1 Monoclonal Antibody

Catalog No	YP-mAb-06872
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB
Gene Name	GPX1
Protein Name	Glutathione peroxidase 1 (GPx-1) (GSHPx-1) (EC 1.11.1.9) (Cellular glutathione peroxidase)
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	GPX1 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	22kD
Cell Pathway	Cytoplasm.
Tissue Specificity	Expressed in platelets (at protein level).
Function	catalytic activity:2 glutathione + H(2)O(2) = glutathione disulfide + 2 H(2)O.,function:Protects the hemoglobin in erythrocytes from oxidative breakdown.,online information:Glutathione peroxidase entry,similarity:Belongs to the glutathione peroxidase family.,subunit:Homotetramer.,
Background	The protein encoded by this gene belongs to the glutathione peroxidase family, members of which catalyze the reduction of organic hydroperoxides and hydrogen peroxide (H2O2) by glutathione, and thereby protect cells against oxidative damage. Other studies indicate that H2O2 is also essential for growth-factor mediated signal transduction, mitochondrial function, and maintenance of thiol redox-balance; therefore, by limiting H2O2 accumulation, glutathione peroxidases are also involved in modulating these processes. Several isozymes of this gene family exist in vertebrates, which vary in cellular location and substrate specificity. This isozyme is the most abundant, is ubiquitously expressed and localized in the cytoplasm, and whose preferred substrate is hydrogen peroxide. It is also a selenoprotein, containing the rare amino acid selenocysteine (Sec) at its active



site. Sec is encoded by the UGA cod

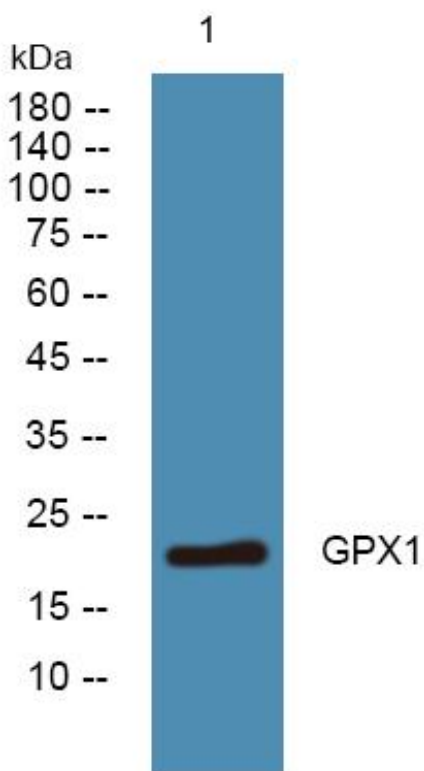
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**



Western Blot analysis of various cells using GPX1 Monoclonal Antibody