

GPX4 Antibody HRP Conjugated

Catalog No: #C04992H

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Description

Product Name	GPX4 Antibody HRP Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	WB IHC-P IHC-F
Species Reactivity	Hu Ms Rt
Immunogen Description	KLH conjugated synthetic peptide derived from human Glutathione Peroxidase 4
Conjugates	HRP
Target Name	GPX4
Other Names	Glutathione peroxidase 4; GPX 4; GPX-4; GPX4; GPX4_HUMAN; GSHPx-4; MCSP; mitochondrial; PHGPx; Phospholipid hydroperoxidase; Phospholipid hydroperoxide glutathione peroxidase; Phospholipid hydroperoxide glutathione peroxidase; Phospholipid hydroperoxide glutathione peroxidase mitochondrial; snGPx; s
Accession No.	NCBI Gene ID2879
Uniprot	P36969
GeneID	2879;
Excitation Emission	N A
Concentration	1mg ml
Formulation	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Application Details

WB=1:500-2000 IHC-P=1:50-200 IHC-F=1:50-200

Background

Glutathione peroxidases (Gpxs) are ubiquitously expressed proteins which catalyze the reduction of hydrogen peroxides and organic hydroperoxides by glutathione. There are several isoforms which differ in their primary structure and localization. The classical cytosolic mitochondrial GPx1 (cGPx) is a selenium-dependent enzyme, first of the GPx family to be discovered. GPx2, also known as gastrointestinal GPx (GI-GPx), is an intracellular enzyme expressed only at the epithelium of the gastrointestinal tract. Extracellular plasma GPx (pGPx or GPx3) is mainly expressed by the kidney from where it is released into the blood circulation. Phospholipid hydroperoxide GPx4 (PH-GPx) expressed in most tissues, can reduce many hydroperoxides including hydroperoxides integrated in membranes, hydroperoxy lipids in low density lipoprotein or thymine. All mammalian GPx family members, except for the recently described Cys containing GPx3 and epididymis-specific secretory GPx (eGPx or GPx5) isoforms, possess selenocysteine at the active site.

Note: This product is for in vitro research use only