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Anti-GPX4 Rabbit pAb (A72102)

Catalog No.: A72102

Basic Information

Catalog No. (Cat.No.)	A72102
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB
Synonyms	GPX4,PHGPX,phospholipid hydroperoxide glutathione peroxidase

Product Information

Target	GPX4
Molecular Weight(Calculated)	22 kDa
Molecular Weight(Observed)	20 kDa
Isotype	IgG
Conjugation	NA
Concentration	1 mg/ml
Clonality	Polyclonal
Clone No.	NA
RRID	NA
Storage buffer	50% Glycerol, 0.5% BSA and 0.02% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:500-1:2000

Target Information

Protein Name	Glutathione peroxidase-4
Gene Name	*GPX4*
Domain	NA
Background	GPX4 (Glutathione Peroxidase 4) is a key antioxidant enzyme of the glutathione peroxidase family, widely expressed in human nerve, liver, kidney and tumor cells. It coregulates intracellular lipid peroxide clearance, ferroptosis regulation and cellular antioxidant homeostasis. GPX4 specifically degrades intracellular lipid peroxides, inhibits lipid oxidative damage, blocks the ferroptosis process and protects cells from oxidative stress damage. Downregulated expression or functional inactivation of GPX4 is a core inducement of ferroptosis, and its dysfunction leads to lipid toxicity accumulation, induces neurodegenerative diseases and organ ischemia-reperfusion injury, and regulates tumor cell ferroptosis resistance to promote tumor drug resistance and proliferation. As a core target for ferroptosis mechanism and disease targeted research, GPX4 can be specifically regulated by rabbit monoclonal antibodies to intervene in cellular ferroptosis, providing a novel targeted strategy for tumor and degenerative disease treatment.