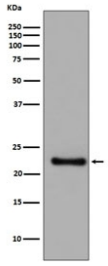
Glutathione Peroxidase 1 Antibody / GPX1 [clone IIF-7] (RQ5172)

Catalog No.	Formulation	Size
RQ5172	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

Bulk quote request

Availability	1-2 weeks
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	IIF-7
Purity	Affinity purified
UniProt	P07203
Applications	Western blot: 1:500-1:2000
Limitations	This Glutathione Peroxidase 1 antibody is available for research use only.



Western blot testing of human SH-SY5Y cell lysate with Glutathione Peroxidase 1 antibody. Predicted molecular weight ~22 kDa.

Description

The protein encoded by the GPX1 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. [RefSeq]

Application Notes

Optimal dilution of the Glutathione Peroxidase 1 antibody should be determined by the researcher.

Immunogen

A synthetic peptide specific to human Glutathione Peroxidase 1 / GPX1 was used as the immunogen for the Glutathione Peroxidase 1 antibody.

Storage

Store the Glutathione Peroxidase 1 antibody at -20oC.

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