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Glutathione Synthetase Rabbit mAb

Catalog # AP75502

Product Information

Application	WB, IHC-P, FC
Primary Accession	P48637
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	52385

Additional Information

Gene ID	2937
Other Names	GSS
Dilution	WB~~1:1000-1:5000 IHC-P~~N/A FC~~1:100-1:1000
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

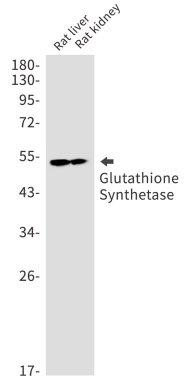
Name	GSS (HGNC:4624)
Function	Catalyzes the production of glutathione from gamma- glutamylcysteine and glycine in an ATP-dependent manner (PubMed:7646467, PubMed:9215686). Glutathione (gamma- glutamylcysteinylglycine, GSH) is the most abundant intracellular thiol in living aerobic cells and is required for numerous processes including the protection of cells against oxidative damage, amino acid transport, the detoxification of foreign compounds, the maintenance of protein sulfhydryl groups in a reduced state and acts as a cofactor for a number of enzymes (PubMed:10369661). Participates in ophthalmate biosynthesis in hepatocytes (By similarity).

Background

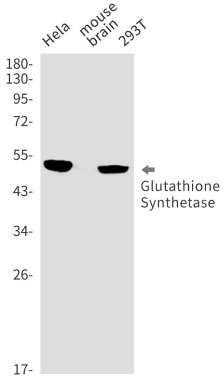
Glutathione is important for a variety of biological functions, including protection of cells from oxidative

damage by free radicals, detoxification of xenobiotics, and membrane transport. The protein encoded by this gene functions as a homodimer to catalyze the second step of glutathione biosynthesis, which is the ATP-dependent conversion of gamma-L-glutamyl-L-cysteine to glutathione. Defects in this gene are a cause of glutathione synthetase deficiency.

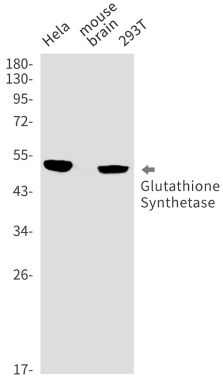
Images



Western blot analysis of Glutathione Synthetase in rat kidney, rat liver lysates using Glutathione Synthetase antibody.



Western blot analysis of Glutathione Synthetase in Hela, mouse brain, 293T, Jurkat lysates using Glutathione Synthetase antibody.



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