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GSS Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6895b

Specification

GSS Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P48637
Other Accession	P46413, P51855, Q8HXX5, Q5EAC2
Reactivity	**Human**
Predicted	**Bovine, Monkey, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**372-400**

GSS Antibody (C-term) - Additional Information

Gene ID 2937

Other Names
Glutathione synthetase, GSH synthetase, GSH-S, Glutathione synthase, GSS

Target/Specificity
This GSS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 372-400 amino acids from the C-terminal region of human GSS.

Dilution
WB~~1:1000
IHC-P~~1:25

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
GSS Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

GSS Antibody (C-term) - Protein Information

Name GSS (HGNC:4624)

Function Catalyzes the production of glutathione from gamma- glutamylcysteine and glycine in

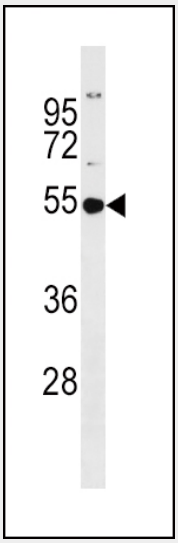
an ATP-dependent manner (PubMed:7646467, PubMed:9215686). Glutathione (gamma-glutamylcysteinylglycine, GSH) is the most abundant intracellular thiol in living aerobic cells and is required for numerous processes including the protection of cells against oxidative damage, amino acid transport, the detoxification 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).

GSS Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GSS Antibody (C-term) - Images



GSS Antibody (C-term) (Cat. #AP6895b) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the GSS antibody detected the GSS protein (arrow).

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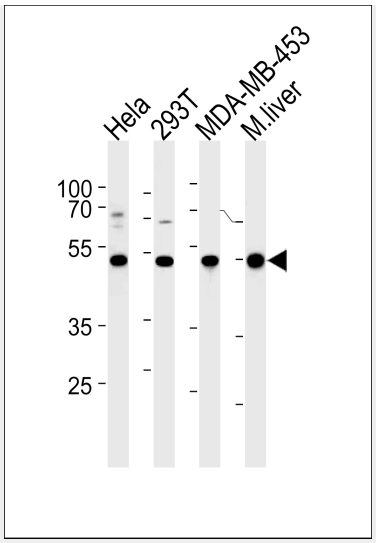
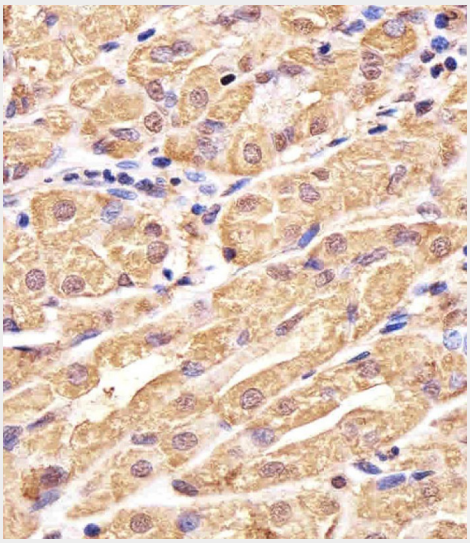


GSS Antibody (C-term) (Cat.# AP6895b) western blot analysis in Hela,293T,MDA-MB-453 cell line and mouse liver tissue lysates (35ug/lane).This demonstrates the GSS antibody detected the GSS protein (arrow).



Immunohistochemical analysis of paraffin-embedded H. stomach section using GSS Antibody (C-term)(Cat#AP6895b). AP6895b was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

GSS Antibody (C-term) - 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. GSS 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.

GSS Antibody (C-term) - References

Starr,J.M., et.al., Mech. Ageing Dev. 129 (12), 745-751 (2008)

GSS Antibody (C-term) - Citations

- Capsular Polysaccharide of Mycoplasma ovipneumoniae Induces Sheep Airway Epithelial Cell Apoptosis via ROS-Dependent JNK/P38 MAPK Pathways.

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