

**GSS Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6895b****Specification**

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**GSS Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [P48637](#)**GSS Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 2937

**Other Names**

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

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6895b](/products/AP6895b) was selected from the C-term region of human GSS. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**GSS Antibody (C-term) Blocking Peptide - Protein Information**Name GSS ([HGNC:4624](#))**Function**

Catalyzes the production of glutathione from gamma- glutamylcysteine and glycine in an ATP-dependent manner (PubMed: <http://www.uniprot.org/citations/7646467> target="\_blank">7646467</a>, PubMed: <http://www.uniprot.org/citations/9215686> target="\_blank">9215686</a>). 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: <http://www.uniprot.org/citations/10369661> target="\_blank">10369661</a>). Participates in ophthalmate biosynthesis in hepatocytes (By similarity).

## **GSS Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **GSS Antibody (C-term) Blocking Peptide - Images**

## **GSS Antibody (C-term) Blocking Peptide - 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) Blocking Peptide - References**

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