

**GLS2 Antibody (C-term E513) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP6650d****Specification**

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**GLS2 Antibody (C-term E513) Blocking peptide - Product Information**

Primary Accession [O9UI32](#)  
Other Accession [NP\\_037399.2](#)

**GLS2 Antibody (C-term E513) Blocking peptide - Additional Information**

**Gene ID** 27165

**Other Names**

Glutaminase liver isoform, mitochondrial, GLS, L-glutaminase, L-glutamine amidohydrolase, GLS2, GA

**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.

**GLS2 Antibody (C-term E513) Blocking peptide - Protein Information**

**Name** GLS2

**Synonyms** GA

**Function**

Plays an important role in the regulation of glutamine catabolism. Promotes mitochondrial respiration and increases ATP generation in cells by catalyzing the synthesis of glutamate and alpha- ketoglutarate. Increases cellular anti-oxidant function via NADH and glutathione production. May play a role in preventing tumor proliferation.

**Cellular Location**

Mitochondrion.

**Tissue Location**

Highly expressed in liver. Expressed in brain and pancreas. Not observed in heart, placenta, lung, skeletal muscle and kidney. Expression is significantly reduced in hepatocellular carcinomas.

**GLS2 Antibody (C-term E513) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**GLS2 Antibody (C-term E513) Blocking peptide - Images****GLS2 Antibody (C-term E513) Blocking peptide - Background**

The protein encoded by this gene is a mitochondrial phosphate-activated glutaminase that catalyzes the hydrolysis of glutamine to stoichiometric amounts of glutamate and ammonia. This protein is functionally similar to the kidney glutaminase but is a little smaller in size. Originally thought to be liver-specific, this protein has been found in other tissues as well. At least one transcribed pseudogene has been found for this gene. [provided by RefSeq].

**GLS2 Antibody (C-term E513) Blocking peptide - References**

Hu, W., et al. Proc. Natl. Acad. Sci. U.S.A. 107(16):7455-7460(2010) Suzuki, S., et al. Proc. Natl. Acad. Sci. U.S.A. 107(16):7461-7466(2010) Szeliga, M., et al. Glia 57(9):1014-1023(2009) Tian, C., et al. J. Neurochem. 105(3):994-1005(2008) Maeshima, H., et al. Prog. Neuropsychopharmacol. Biol. Psychiatry 31(7):1410-1418(2007)