

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

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)