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GLS2 Antibody (C-term E513) Blocking peptide

Synthetic peptide
Catalog # BP6650d

Specification

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

Primary Accession	Q9UI32
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

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

The protein encoded by this gene is a mitochondrialphosphate-activated glutaminase that catalyzes the hydrolysis ofglutamine to stoichiometric amounts of glutamate and ammonia. Thisprotein is functionally similar to the kidney glutaminase but is alittle smaller in size. Originally thought to be liver-specific,this protein has been found in other tissues as well. At least onetranscribed pseudogene has been found for this gene. [provided byRefSeq].

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)

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