

GLUD1 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP11701b**Specification**

GLUD1 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [P00367](#)**GLUD1 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 2746**Other Names**

Glutamate dehydrogenase 1, mitochondrial, GDH 1, GLUD1, GLUD

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.

GLUD1 Antibody (C-term) Blocking peptide - Protein Information**Name** GLUD1**Synonyms** GLUD**Function**

Mitochondrial glutamate dehydrogenase that catalyzes the conversion of L-glutamate into alpha-ketoglutarate. Plays a key role in glutamine anaplerosis by producing alpha-ketoglutarate, an important intermediate in the tricarboxylic acid cycle (PubMed:11032875, PubMed:16959573, PubMed:11254391, PubMed:16023112). Plays a role in insulin homeostasis (PubMed:9571255, PubMed:11297618). May be involved in learning and memory reactions by increasing the turnover of the excitatory neurotransmitter glutamate (By similarity).

Cellular Location

Mitochondrion. Endoplasmic reticulum. Note=Mostly translocates into the mitochondria, only a small amount of the protein localizes to the endoplasmic reticulum.

GLUD1 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

GLUD1 Antibody (C-term) Blocking peptide - Images**GLUD1 Antibody (C-term) Blocking peptide - Background**

The PAX genes, including PAX1, are a highly conserved family of developmental control genes that encode transcription factors and have been shown to play a role in pattern formation during embryogenesis in vertebrates (McGaughan et al., 2003[PubMed 12774041]). See PAX7 (MIM 167410) for a discussion of paired box domain genes.

GLUD1 Antibody (C-term) Blocking peptide - References

Huang, T.H., et al. Int. J. Gynecol. Cancer 20(4):513-519(2010) Yerges, L.M., et al. J. Bone Miner. Res. 24(12):2039-2049(2009) Hillmer, A.M., et al. Nat. Genet. 40(11):1279-1281(2008) Richards, J.B., et al. Nat. Genet. 40(11):1282-1284(2008) Fei, Q., et al. Zhonghua Yi Xue Za Zhi 88(37):2597-2602(2008)