10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GLUD2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20104a

Product Information

Application	WB, E
Primary Accession	P49448
Other Accession	NP_036216.2
Reactivity	Human
Predicted	Mouse, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB42527
Calculated MW	61434
Antigen Region	75-103

Additional Information

Gene ID	2747
Other Names	Glutamate dehydrogenase 2, mitochondrial, GDH 2, GLUD2, GLUDP1
Target/Specificity	This GLUD2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 75-103 amino acids from the N-terminal region of human GLUD2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GLUD2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GLUD2 (HGNC:4336)
Synonyms	GLUDP1
Function	Catalyzes the oxidative deamination of glutamate to alpha- ketoglutarate

	and ammonia (PubMed:11032875). Plays a key role in glutamate metabolism and energy production via the TCA cycle in neural and testicular tissues (PubMed:11032875). Important for recycling glutamate during neurotransmission (By similarity).
Cellular Location	Mitochondrion matrix
Tissue Location	Expressed in retina, testis and, at a lower level, brain.

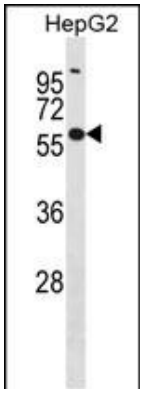
Background

The protein encoded by this gene is localized to the mitochondrion and acts as a homohexamer to recycle glutamate during neurotransmission. The encoded enzyme catalyzes the reversible oxidative deamination of glutamate to alpha-ketoglutarate. This gene is intronless.

References

Spanaki, C., et al. J. Biol. Chem. 285(22):16748-16756(2010)
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Zaganas, I., et al. Neurochem. Int. 55 (1-3), 52-63 (2009) :
Mastorodemos, V., et al. Biochem. Cell Biol. 87(3):505-516(2009)
Kanavouras, K., et al. J. Neurochem. 109 SUPPL 1, 167-173 (2009) :

Images



GLUD2 Antibody (N-term) (Cat. #AP20104a) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the GLUD2 antibody detected the GLUD2 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.