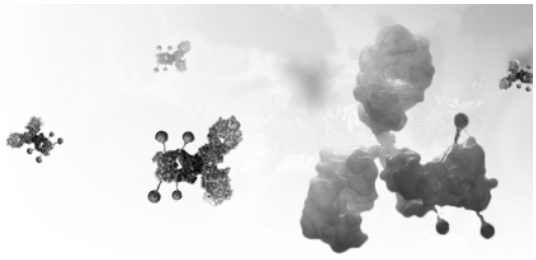

Human GLUD1 blocking peptide (CDBP1379)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-Glutamate Dehydrogenase antibody
Antigen Description	This gene encodes glutamate dehydrogenase protein; a mitochondrial matrix enzyme that catalyzes the oxidative deamination of glutamate to alpha-ketoglutarate and ammonia. This enzyme has an important role in regulating amino acid induced insulin secretion and activating mutations in this gene are a common cause of congenital hyperinsulinism. This enzyme is allosterically activated by ADP and inhibited by GTP and ATP. The related glutamate dehydrogenase 2 gene on the human X-chromosome originated from this gene via retrotransposition and encodes a soluble form of glutamate dehydrogenase. Multiple pseudogenes of this gene are present in humans.[provided by RefSeq, Sep 2009]
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name	GLUD1 glutamate dehydrogenase 1 [Homo sapiens (human)]
Official Symbol	GLUD1

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Synonyms	GLUD1; glutamate dehydrogenase 1; GDH; GDH1; GLUD; glutamate dehydrogenase 1, mitochondrial; GDH 1; glutamate dehydrogenase (NAD(P)+);
Entrez Gene ID	2746
mRNA Refseq	NM_005271.3
Protein Refseq	NP_005262.1
UniProt ID	E9KL48
Chromosome Location	10q23.3
Pathway	Alanine, aspartate and glutamate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, conserved biosystem; Amino acid synthesis and interconversion (transamination), organism-specific biosystem; Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; D-Glutamine and D-glutamate metabolism, organism-specific biosystem; D-Glutamine and D-glutamate metabolism, conserved biosystem; Metabolism, organism-speci
Function	ADP binding; ATP binding; GTP binding; NAD+ binding; glutamate dehydrogenase (NAD+) activity; glutamate dehydrogenase [NAD(P)+] activity; glutamate dehydrogenase [NAD(P)+] activity; identical protein binding; leucine binding; protein binding;

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