# **GLUD1** Polyclonal Antibody

Catalog Number:E-AB-62764



*Note:* Centrifuge before opening to ensure complete recovery of vial contents.

Description	
Reactivity	Human, Mouse, Rat
Immunogen	Recombinant fusion protein of human GLUD1 (NP_005262.1).
Host	Rabbit
Isotype	IgG
Purification	Affinity purification
Conjugation	Unconjugated
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Applications	Recommended Dilution
ІНС	1:100-1:200
IF	1:50-1:200
Data	



Immunohistochemistry of paraffin-embedded Human liver cancer using GLUD1 Polyclonal Antibody at dilution of 1:100 (40x lens).







Immunofluorescence analysis of NIH-3T3 cells using GLUD1 Polyclonal Antibody at dilution of 1:100.



Immunohistochemistry of paraffin-embedded Human colon carcinoma using GLUD1 Polyclonal Antibody at dilution of 1:100 (40x lens).



Immunofluorescence analysis of C6 cells using GLUD1 Polyclonal Antibody at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of C6 cells using GLUD1 Polyclonal Antibody at dilution of 1:100.

### For Research Use Only

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Toll-free: 1-888-852-8623 Web: <u>www.elabscience.com</u> Tel: 1-832-243-6086 Email: <u>techsupport@elabscience.com</u>

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#### **Preparation & Storage**

Storage

Store at -20°C. Avoid freeze / thaw cycles.

#### Background

This gene encodes glutamate dehydrogenase, which is 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. It is allosterically activated by ADP and inhibited by GTP and ATP. Activating mutations in this gene are a common cause of congenital hyperinsulinism. Alternative splicing of this gene results in multiple transcript variants. 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. Related pseudogenes have been identified on chromosomes 10, 18 and X.

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