

GLUD1/Glutamate Dehydrogenase Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS15372**Specification**

GLUD1/Glutamate Dehydrogenase Antibody (Internal) - Product Information

Application	WB, IHC
Primary Accession	P00367
Reactivity	Human, Mouse, Monkey, Pig, Horse
Host	Goat
Clonality	Polyclonal
Calculated MW	61kDa KDa

GLUD1/Glutamate Dehydrogenase Antibody (Internal) - Additional Information**Gene ID** 2746**Other Names**

Glutamate dehydrogenase 1, mitochondrial, GDH 1, 1.4.1.3, GLUD1, GLUD

Target/Specificity

Human GLUD1. This antibody is expected to recognize both reported isoforms (NP_005262.1; NP_036216.2).

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

GLUD1/Glutamate Dehydrogenase Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

GLUD1/Glutamate Dehydrogenase Antibody (Internal) - 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

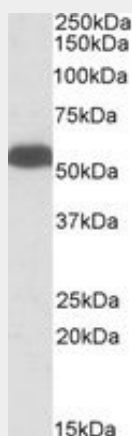
Mitochondrion. Endoplasmic reticulum. Note=Mostly translocates into the mitochondria, only a small amount of the protein localizes to the endoplasmic reticulum.

GLUD1/Glutamate Dehydrogenase Antibody (Internal) - Protocols

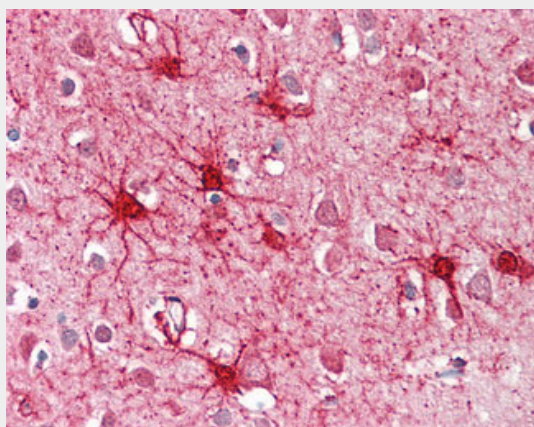
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GLUD1/Glutamate Dehydrogenase Antibody (Internal) - Images



GLUD1 antibody (0.3 ug/ml) staining of Mouse Liver lysate (35 ug protein/ml in RIPA buffer).



Anti-GLUD1 antibody IHC of human brain, cortex.

GLUD1/Glutamate Dehydrogenase Antibody (Internal) - Background

Mitochondrial glutamate dehydrogenase that converts L- glutamate into alpha-ketoglutarate. Plays a key role in glutamine anaplerosis by producing alpha-ketoglutarate, an important intermediate in the tricarboxylic acid cycle. May be involved in learning and memory reactions by increasing the turnover of the excitatory neurotransmitter glutamate (By similarity).

GLUD1/Glutamate Dehydrogenase Antibody (Internal) - References

Nakatani Y.,et al.Biochem. Biophys. Res. Commun. 149:405-410(1987).
Amuro N.,et al.Biochem. Biophys. Res. Commun. 152:1395-1400(1988).
Nakatani Y.,et al.Nucleic Acids Res. 16:6237-6237(1988).
Mavrothalassitis G.,et al.Proc. Natl. Acad. Sci. U.S.A. 85:3494-3498(1988).
Michaelidis T.M.,et al.Genomics 16:150-160(1993).