

Rabbit GLUD1 Polyclonal Antibody | anti-GLUD1 antibody

GLUD1 Antibody

CATALOG # AAA322942	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
-------------------------------	-----------------------	--	---

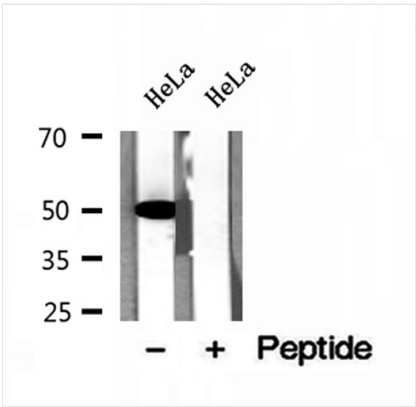
PRODUCT SYNONYMS

GLUD1; Polyclonal Antibody; GLUD1 Antibody; AI118167; DHE3_HUMAN; EC 1.4.1.3; GDH 1; GDH; Gdh-X; GDH1; GLUD; Glud1; Glud1a; Glud1b; Gludl; Glutamate dehydrogenase (NAD(P)+); Glutamate dehydrogenase 1; Glutamate dehydrogenase 1 mitochondrial; Glutamate dehydrogenase 1a; Glutamate dehydrogenase 1b; Memory-related gene 2 protein; MGC127177; MGC132003; MGC80801; MGC93608; mitochondrial; MRG-2; anti-GLUD1 antibody

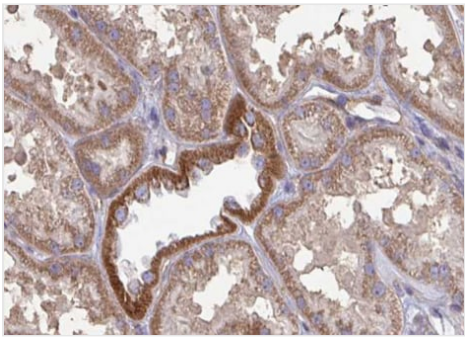
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	GLUD1 antibody detects endogenous levels of GLUD1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	425
Applicable Applications for anti-GLUD1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GLUD1.
Subcellular Location	Mitochondrion Matrix.
Predicted Cross Reactivity	Bovine, Sheep, Rabbit, Chicken, Xenopus
Similarity	Bovine (100%), Sheep (100%), Rabbit (100%), Chicken (91%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts of HeLa cells, using GLUD1 antibody.



IHC (Immunohistochemistry)
AAA322942 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-GLUD1 antibody	Function: 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). Subunit Structure: Homohexamer. Post-translational Modifications: ADP-ribosylated by SIRT4, leading to inactivate glutamate dehydrogenase activity (By similarity). Stoichiometry shows that ADP-ribosylation occurs in one subunit per catalytically active homohexamer. Similarity: Belongs to the Glu/Leu/Phe/Val dehydrogenases family.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	974141156
NCBI GeneID	2746
NCBI Accession #	NP_001305829.1
NCBI GenBank Nucleotide #	NM_001318900.1
UniProt Accession #	P00367; Q5TBU3; B3KV55; B4DGN5
Molecular Weight	Observed: 45-55 kDa Predicted: 62 kDa
NCBI Official Full Name	glutamate dehydrogenase 1, mitochondrial isoform b
NCBI Official Synonym Full Names	glutamate dehydrogenase 1
NCBI Official Symbol	GLUD1
NCBI Official Synonym Symbols	GDH; GDH1; GLUD
NCBI Protein Information	glutamate dehydrogenase 1, mitochondrial
UniProt Protein Name	Glutamate dehydrogenase 1, mitochondrial
UniProt Gene Name	GLUD1
UniProt Synonym Gene Names	GLUD; GDH 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

