

Datasheet for ABIN2782329
anti-GLUD1 antibody (N-Term)

6 Images

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	GLUD1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Dog, Horse, Pig, Zebrafish (Danio rerio), Sheep, Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GLUD1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human GLUD1
Sequence:	EGFFDRGASI VEDKLVEDLR TRESEEQKRN RVRGILRIIK PCNHVLSLSF
Predicted Reactivity:	Cow: 86%, Dog: 100%, Horse: 93%, Human: 100%, Mouse: 93%, Pig: 93%, Rat: 100%, Sheep: 86%, Yeast: 86%, Zebrafish: 83%
Characteristics:	This is a rabbit polyclonal antibody against GLUD1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	GLUD1
---------	-------

Target Details

Alternative Name:	GLUD1 (GLUD1 Products)
Background:	<p>L-glutamate dehydrogenase (EC 1.4.1.3) has a central role in nitrogen metabolism in plants and animals. Glutamate dehydrogenase is found in all organisms and catalyzes the oxidative deamination of 1-glutamate to 2-oxoglutarate. Glutamate, the main substrate of GLUD, is present in brain in concentrations higher than in other organs. In nervous tissue, GLUD appears to function in both the synthesis and the catabolism of glutamate and perhaps in ammonia detoxification. L-glutamate dehydrogenase (EC 1.4.1.3) has a central role in nitrogen metabolism in plants and animals. Glutamate dehydrogenase is found in all organisms and catalyzes the oxidative deamination of 1-glutamate to 2-oxoglutarate (Smith et al., 2001 [PubMed 11254391]). Glutamate, the main substrate of GLUD, is present in brain in concentrations higher than in other organs. In nervous tissue, GLUD appears to function in both the synthesis and the catabolism of glutamate and perhaps in ammonia detoxification (Mavrothalassitis et al., 1988 [PubMed 3368458]).[supplied by OMIM]. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. PRIMARYREFSEQ_SPAN PRIMARY_IDENTIFIER PRIMARY_SPAN COMP 1-51 M20867.1 1-51 52-3120 BC112946.1 16-3084</p> <p>Alias Symbols: GDH, GDH1, GLUD, MGC132003</p> <p>Protein Interaction Partner: FUS, UBC, DCP2, KLHL29, SUMO1, NEDD8, LSM1, ILK, CDK5, VTN, SEC62, STAT5A, ORM1, HPX, NR4A1, FN1, CRP, ASGR2, CUL3, ELAVL1, EBNA-LP, HDAC5, ICT1, GLUD1, DYNLL1, GOT2,</p> <p>Protein Size: 558</p>

Molecular Weight:	56 kDa
Gene ID:	2746
NCBI Accession:	NM_005271 , NP_005262
UniProt:	P00367
Pathways:	Positive Regulation of Peptide Hormone Secretion , Warburg Effect

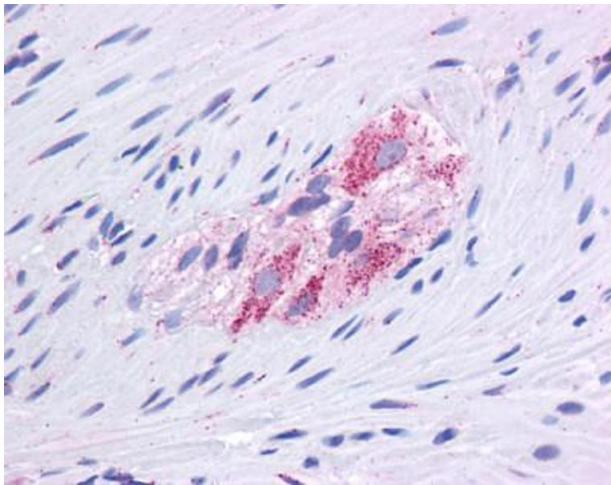
Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 558 AA
Restrictions:	For Research Use only

Handling

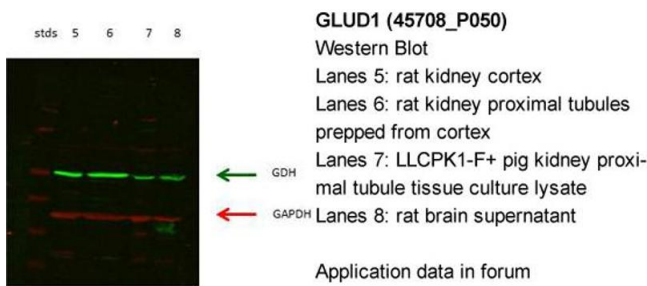
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Immunohistochemistry

Image 1. Immunohistochemistry with CORTEX/KIDNEY tissue

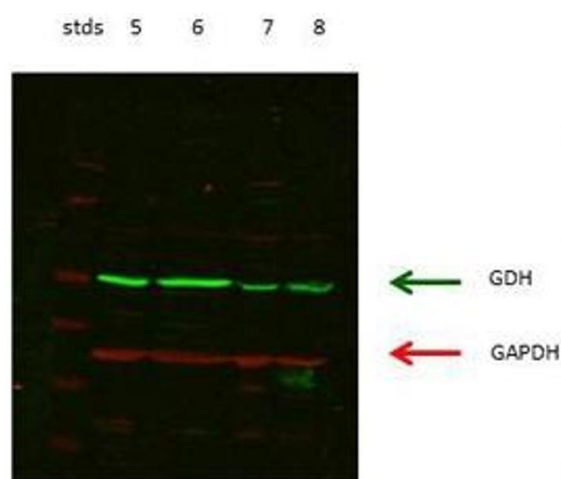


GLUD1 (45708_P050)
Western Blot
Lanes 5: rat kidney cortex
Lanes 6: rat kidney proximal tubules
prepped from cortex
Lanes 7: LLC PK1-F+ pig kidney proximal
tubule tissue culture lysate
Lanes 8: rat brain supernatant

Application data in forum

Submitted by:
Lynn Taylor
Colorado State University

Image 2.



Western Blotting

Image 3. lanes 5: rat kidney cortex lanes 6: rat kidney proximal tubules prepped from cortex lanes 7: LLC PK-F+ pig kidney proximal tubule tissue culture lysate lanes 8: rat brain supernatant

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN2782329.