

Product datasheet for **TA338162**

GLUD1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB, IHC
Reactivity:	Human, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-GLUD1 antibody: synthetic peptide directed towards the N terminal of human GLUD1. Synthetic peptide located within the following region: EGFFDRGASIVEDKLVEDLRTRESEEQKRNRVVRGILRIIKPCNHVLSLSF
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	56 kDa
Gene Name:	glutamate dehydrogenase 1
Database Link:	NP_005262 Entrez Gene 24399 Rat Entrez Gene 2746 Human P00367



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Background:

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]

Synonyms:

GDH; GDH1; GLUD

Note:

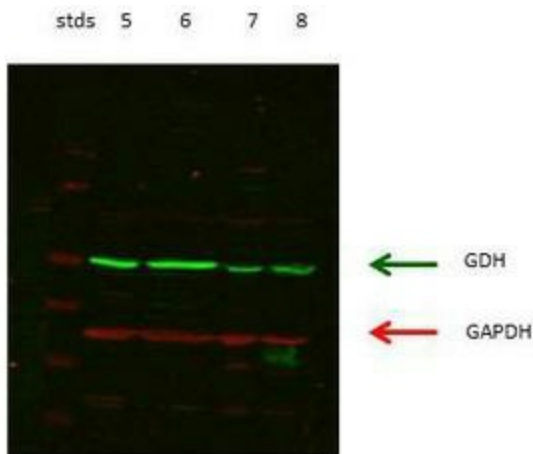
Immunogen Sequence Homology: Dog: 100%; Rat: 100%; Human: 100%; Pig: 93%; Horse: 93%; Mouse: 93%; Sheep: 86%; Yeast: 86%; Bovine: 86%; Zebrafish: 83%

Protein Families:

Druggable Genome

Protein Pathways:

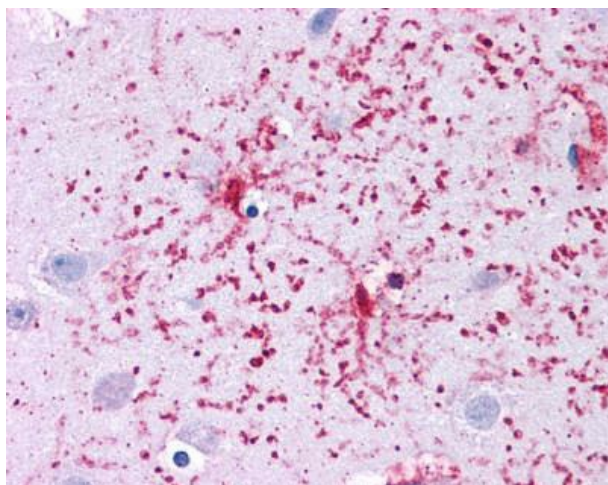
Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, D-Glutamine and D-glutamate metabolism, Metabolic pathways, Nitrogen metabolism

Product images:

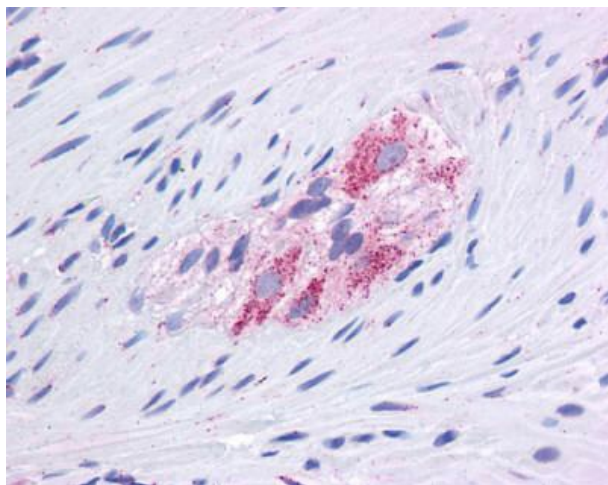
lanes 5: rat kidney cortex; lanes 6: rat kidney proximal tubules prepped from cortex; lanes 7: LLCPK-F+ pig kidney proximal tubule tissue culture lysate; lanes 8: rat brain supernatant



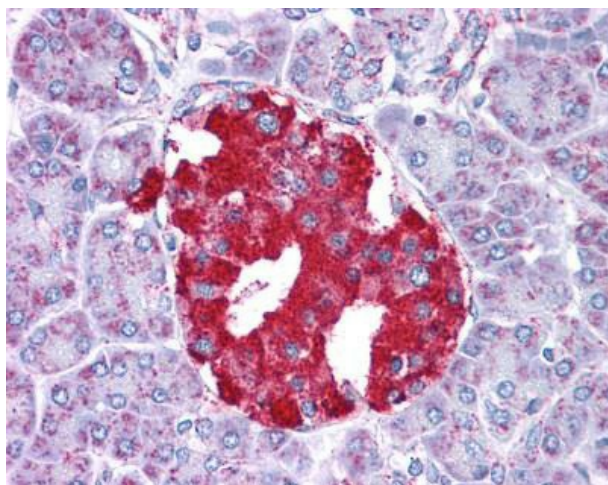
GLUD1 antibody - N-terminal region validated by WB using HT1080 cell lysate at 1 ug/ml. GLUD1 is strongly supported by BioGPS gene expression data to be expressed in Human HT1080 cells



Immunohistochemistry with PFA fixed human colon tissue



Immunohistochemistry with CORTEX/KIDNEY tissue



Immunohistochemistry with pFA fixed human pancreas tissue