

Product datasheet for **TA338163**

GLUD1 Rabbit Polyclonal Antibody

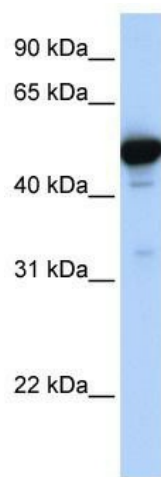
Product data:

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: AKAGVKINPKNYTDNELEKITRRFTMELAKKGFIPGIDVPAPDMSTGER
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

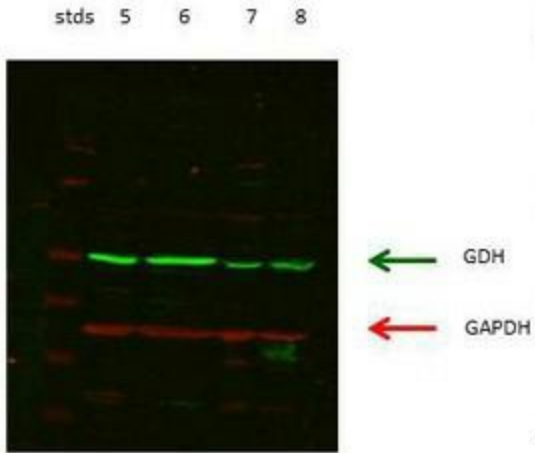


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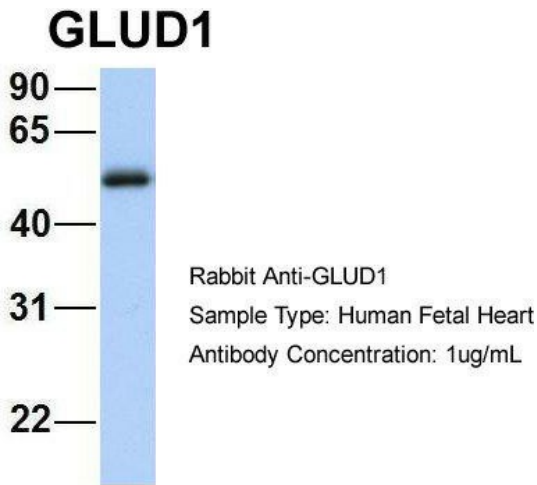
Background:	This gene encodes glutamate dehydrogenase protein; a mitochondrial matrix enzyme that catalyzes the oxidative deamination of glutamate to alpha-ketoglutarate and ammonia. This enzyme has an important role in regulating amino acid induced insulin secretion and activating mutations in this 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%; Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Sheep: 100%; Bovine: 100%; Rabbit: 100%; Zebrafish: 86%; Guinea pig: 86%
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:

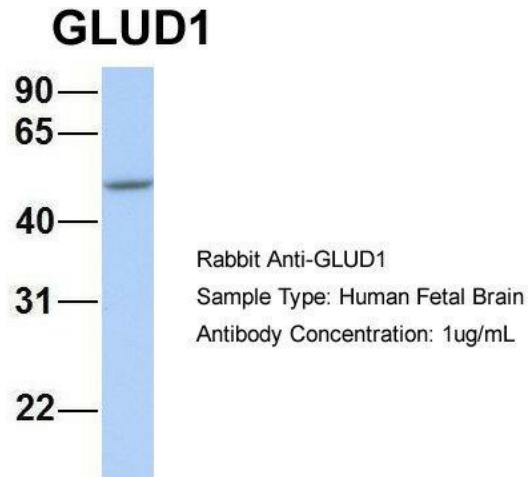
GLUD1 antibody - N-terminal region validated by WB using Fetal Liver Lysate at 1 ug/ml.



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



6Hum. Fetal Heart; Host: Rabbit; Target Name: GNAS; Sample Tissue: Human Fetal Heart; Antibody Dilution: 1.0 ug/ml



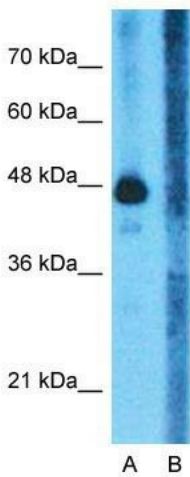
7Hum. Fetal Brain; Host: Rabbit; Target Name: NOP56; Sample Tissue: Human Fetal Brain; Antibody Dilution: 1.0 ug/ml

GLUD1



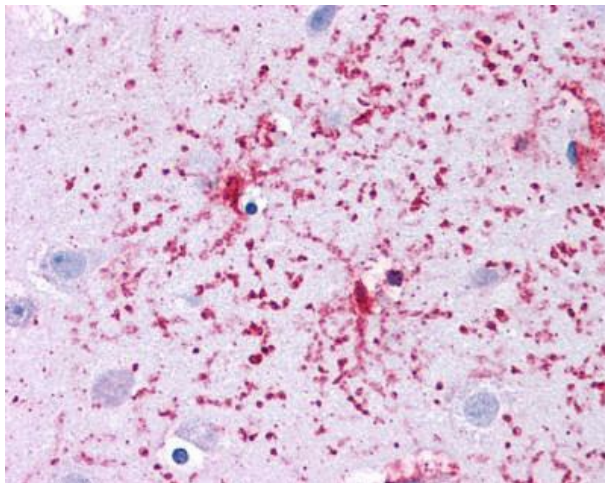
Rabbit Anti-GLUD1
 Sample Type: Human Adult Placenta
 Antibody Concentration: 1ug/mL

8Hum. Adult Placenta; Host: Rabbit; Target Name: SERPINA3; Sample Tissue: Human Adult Placenta; Antibody Dilution: 1.0 ug/ml

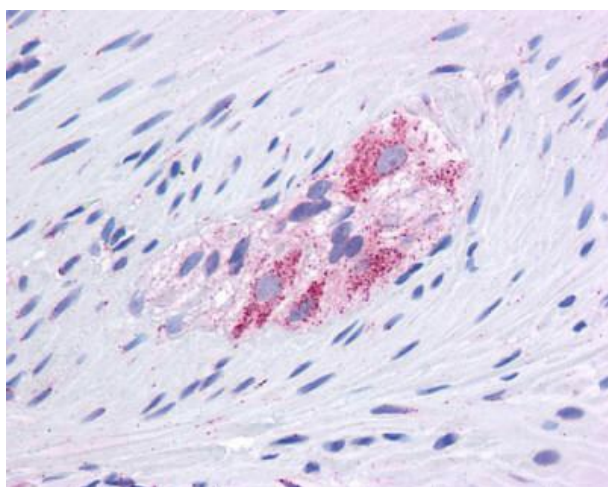


Anti-GLUD1 Western Blot & Peptide Block Validation
 Lysate: Fetal Liver
 Lane A: Primary Antibody
 Lane B: Primary Antibody + Blocking Peptide
 Primary Antibody Concentration: 1.0µg/ml
 Peptide Concentration: 5.0µg/ml
 Lysate Quantity: 25µg/lane
 Gel Concentration: 12%

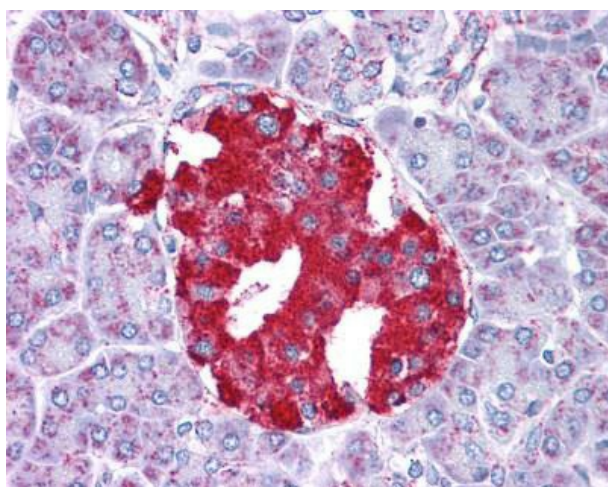
Host: Rabbit; Target Name: GLUD1; Sample Tissue: Human Fetal Liver; Lane A: Primary Antibody; Lane B: Primary Antibody + Blocking Peptide; Primary Antibody Concentration: 1 ug/ml; Peptide Concentration: 5 ug/ml; Lysate Quantity: 25 ug/lane/lane; Gel Conce



Immunohistochemistry with pFa fixed human brain tissue tissue



Immunohistochemistry with CORTEX/KIDNEY tissue



Immunohistochemistry with pFA fixed human pancreas tissue