

Datasheet for ABIN6141157 anti-GLUD1 antibody (AA 54-240)



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7 Images

Overview

Quantity:	100 µL
Target:	GLUD1
Binding Specificity:	AA 54-240
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GLUD1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 54-240 of human GLUD1 (NP_005262.1).
Sequence:	SEAVADREDD PNFFKMVEGF FDRGASIVED KLVEDLRTRE SEEQKRNVRV GILRIIKPCN HVLSLSPFIR RDDGSWEVIE GYRAQHSQHR TPCKGGIRYS TDVSVDEVKA LASLMTYKCA VVDVPFGGAK AGVKINPKNY TDNELEKITR RFTMELAKKG FIGPGIDVPA PDMSTGEREM SWIADTY
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

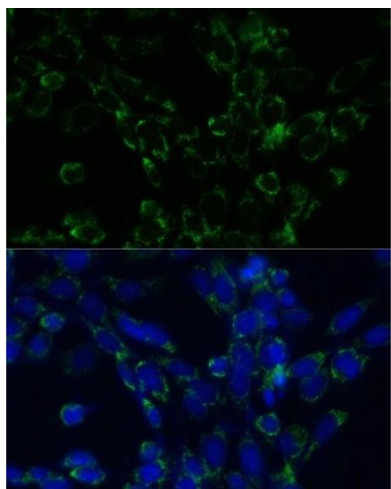
Target:	GLUD1
Alternative Name:	GLUD1 (GLUD1 Products)
Background:	<p>This gene encodes glutamate dehydrogenase, which is a mitochondrial matrix enzyme that catalyzes the oxidative deamination of glutamate to alpha-ketoglutarate and ammonia. This enzyme has an important role in regulating amino acid-induced insulin secretion. It is allosterically activated by ADP and inhibited by GTP and ATP. Activating mutations in this gene are a common cause of congenital hyperinsulinism. Alternative splicing of this gene results in multiple transcript variants. 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. Related pseudogenes have been identified on chromosomes 10, 18 and X.,GLUD1,GDH,GDH1,GLUD,Cancer,Signal Transduction,Cell Biology & Developmental Biology,Endocrine & Metabolism,Amino acid metabolism,GLUD1</p>
Molecular Weight:	42 kDa/46 kDa/61 kDa
Gene ID:	2746
UniProt:	P00367
Pathways:	Positive Regulation of Peptide Hormone Secretion , Warburg Effect

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:100 - 1:200,IF,1:50 - 1:200,IP,1:50 - 1:200
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

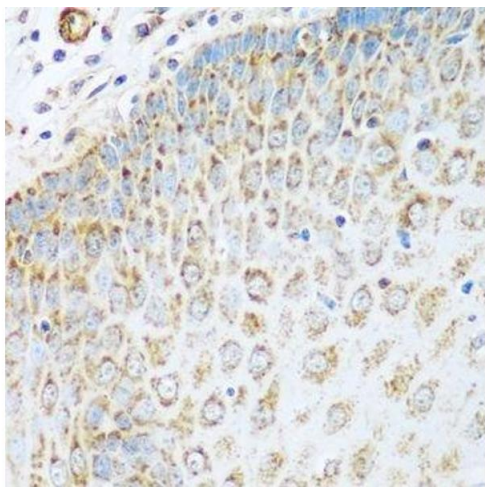
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



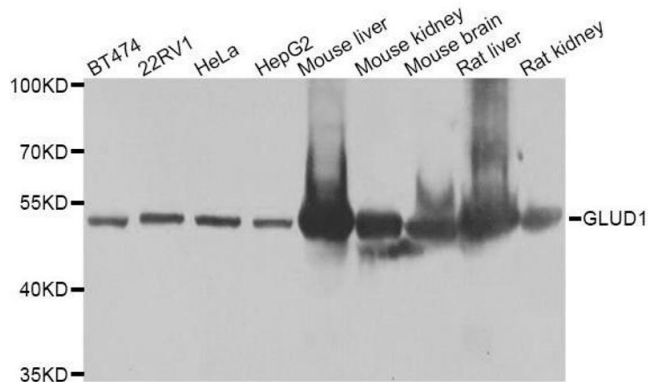
Immunofluorescence

Image 1. Immunofluorescence analysis of NIH-3T3 cells using GLUD1 antibody (ABIN6127975, ABIN6141157, ABIN6141158 and ABIN6223546) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemistry of paraffin-embedded human esophagus using GLUD1 antibody.



Western Blotting

Image 3. Western blot analysis of extracts of various cell lines, using GLUD1 antibody.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN6141157.