A7631

Leader in Biomolecular Solutions for Life Science

GLUD1 Rabbit pAb

Catalog No.: A7631 4 Publications



Basic Information

Observed MW 52kDa

Calculated MW 61kDa

Category Mouse Monoclonal Antibody

Applications WB,IHC-P,IF/ICC,IP,ELISA

Cross-Reactivity Human,Mouse,Rat

Background

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.

Recommended Dilutions

WB	1:500 - 1:1000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200
IP	0.5µg-4µg antibody for 200µg-400µg extracts of whole cells

Immunogen Information

 Gene ID
 Swiss Prot

 2746
 P00367

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 54-242 of human GLUD1 (NP_005262.1).

Synonyms

GDH; GDH1; GLUD; hGDH1; GLUD1

Contact

Product Information

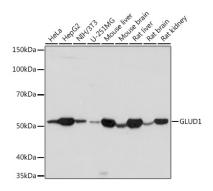
www.abclonal.com

Source Rabbit **Isotype** IgG Purification Affinity purification

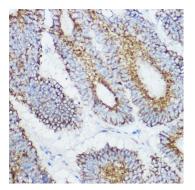
Storage

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.

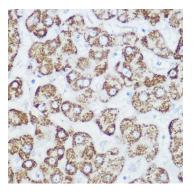
Validation Data



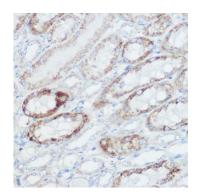
Western blot analysis of various lysates using GLUD1 Rabbit pAb (A7631) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



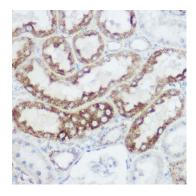
Immunohistochemistry analysis of GLUD1 in paraffin-embedded human colon carcinoma using GLUD1 Rabbit pAb (A7631) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



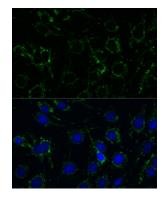
Immunohistochemistry analysis of GLUD1 in paraffin-embedded human liver using GLUD1 Rabbit pAb (A7631) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



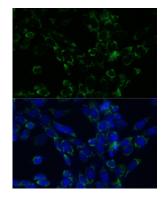
Immunohistochemistry analysis of GLUD1 in paraffin-embedded mouse kidney using GLUD1 Rabbit pAb (A7631) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of GLUD1 in paraffin-embedded rat kidney using GLUD1 Rabbit pAb (A7631) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

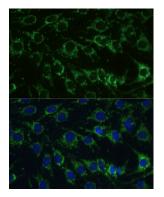


Immunofluorescence analysis of C6 cells using GLUD1 Rabbit pAb (A7631) at dilution of 1:100. Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

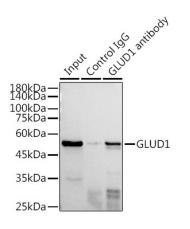


Immunofluorescence analysis of NIH-3T3 cells using GLUD1 Rabbit pAb (A7631) at dilution of 1:100. Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

Validation Data



Immunofluorescence analysis of C6 cells using GLUD1 Rabbit pAb (A7631) at dilution of 1:100. Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 300 μ g extracts of HepG2 cells using 3 μ g GLUD1 antibody (A7631). Western blot was performed from the immunoprecipitate using GLUD1 antibody (A7631) at a dilution of 1:1000.