GLUD1 Polyclonal ANTIBODY

Catalog Number: 14299-1-AP

Basic Information

- Catalog Number: 14299-1-AP
- Size: 21 μg/150 μl
- Source: Rabbit
- IgG
- Purification Method: Antigen affinity purification
- Immunogen Catalog Number: AG5694
- GenBank Accession Number: BC040132
- GeneID (NCBI): 2746
- Calculated MW: 61 kDa
- Observed MW: 45-55 kDa

Recommended Dilutions:
- WB: 1:1000-1:4000
- IP: 0.5-4.0 μg for IP and 1:1000-1:2000 for WB
- IHC: 1:50-1:500

Applications

- Tested Applications: IHC, IP, WB, ELISA
- Cited Applications: WB
- Species Specificity: human, mouse, rat
- Cited Species: human, mouse

Background Information

Human glutamate dehydrogenase (GDH), an enzyme central to the metabolism of glutamate, is known to exist in housekeeping and nerve tissue-specific isoforms encoded by the GLUD1 and GLUD2 genes, respectively. It catalyses the reversible inter-conversion of glutamate to α-ketoglutarate and ammonia, thus interconnecting amino acid and carbohydrate metabolism. GLUD1 might contribute to the formation of specific synapses in the hippocampus such as those formed by the projecting neurons of the entorhinal cortex (PMID: 22138648). GLUD1 has a calculated molecular mass of 61 kDa and an apparent molecular mass of 45-55 kDa with the 53aa transit peptide removed.

Notable Publications

- Author: Jessica B Spinelli
  - PubMed ID: 26029585
  - Journal: Science
  - Application: WB
- Author: Shizhen Qin
  - PubMed ID: 27579553
  - Journal: J Proteome Res
  - Application: WB
- Author: Wen Yang
  - PubMed ID: 27861304
  - Journal: Cell
  - Application: WB

Storage

- Store at -20°C. Stable for one year after shipment.
- Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
- Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
- T: 1(888) 4PTGLAB (toll free in USA), or 1(312) 455-8498 (outside USA)
- E: proteintech@ptglab.com
- W: ptglab.com

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HeLa cells were subjected to SDS PAGE followed by western blot with 14299-1-AP (GLUD1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.

Immunohistochemistry of paraffin-embedded human gliomas tissue slide using 14299-1-AP (GLUD1 antibody) at dilution of 1:200 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).

Immunohistochemistry of paraffin-embedded human gliomas tissue slide using 14299-1-AP (GLUD1 antibody) at dilution of 1:200 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).