

For Research Use Only

# GLUD1 Monoclonal antibody, PBS Only



Catalog Number: 67026-1-PBS

## Basic Information

<b>Catalog Number:</b> 67026-1-PBS	<b>GenBank Accession Number:</b> BC040132	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 2746	<b>CloneNo.:</b> 4G10D3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P00367	
<b>Isotype:</b> IgG2b	<b>Full Name:</b> glutamate dehydrogenase 1	
<b>Immunogen Catalog Number:</b> AG6179	<b>Calculated MW:</b> 61 kDa	
	<b>Observed MW:</b> 45-55 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA, IHC, IF

**Species Specificity:**  
Human, Mouse, Rat

## 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 alpha-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.

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

For technical support and original validation data for this product please contact:

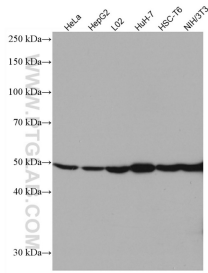
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

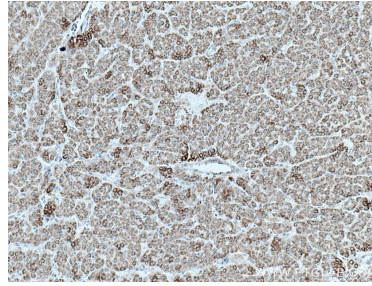
W: [ptgcn.com](http://ptgcn.com)

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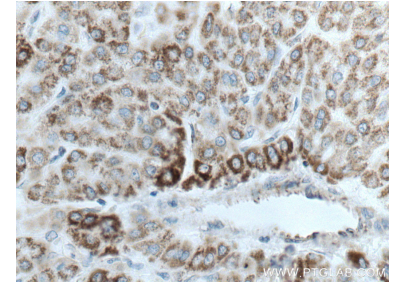
## Selected Validation Data



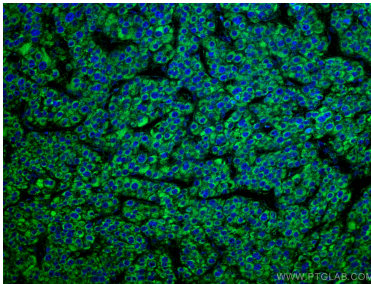
Various lysates were subjected to SDS PAGE followed by western blot with 67026-1-Ig (GLUD1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 67026-1-PBS in a different storage buffer formulation.



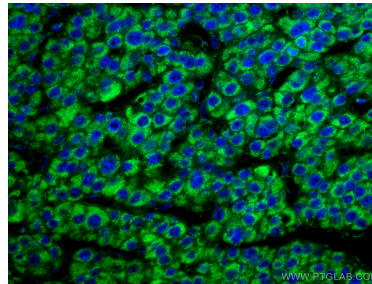
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67026-1-Ig (GLUD1 antibody) at dilution of 1:1000 (under 10x lens) proteolytic pre-treatment mediated antigen retrieved with Tris-EDTA buffer (pH9). This data was developed using the same antibody clone with 67026-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67026-1-Ig (GLUD1 antibody) at dilution of 1:1000 (under 40x lens) proteolytic pre-treatment mediated antigen retrieved with Tris-EDTA buffer (pH9). This data was developed using the same antibody clone with 67026-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using GLUD1 antibody (67026-1-Ig, Clone: 4G10D3) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 67026-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using GLUD1 antibody (67026-1-Ig, Clone: 4G10D3) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 67026-1-PBS in a different storage buffer formulation.