

# GLUD1 Rabbit Polyclonal Antibody

Catalog No: #55265

Package Size: #55265-1 50ul #55265-2 100ul

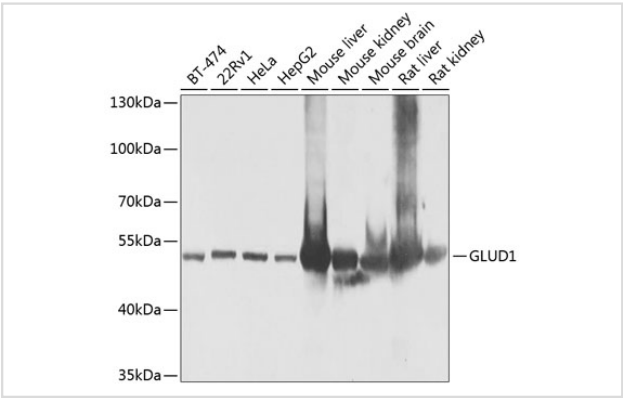
## Description

|                       |                                                          |
|-----------------------|----------------------------------------------------------|
| Product Name          | GLUD1 Rabbit Polyclonal Antibody                         |
| Host Species          | Rabbit                                                   |
| Clonality             | Polyclonal                                               |
| Isotype               | IgG                                                      |
| Purification          | Affinity purification                                    |
| Applications          | WB,IHC,IF                                                |
| Species Reactivity    | Human,Mouse,Rat                                          |
| Immunogen Description | Recombinant fusion protein of human GLUD1 (NP_005262.1). |
| Conjugates            | Unconjugated                                             |
| Other Names           | GLUD1;GDH;GDH1;GLUD                                      |
| Accession No.         | Swiss Prot:P00367GenelD:2746                             |
| Calculated MW         | 42kDa/46kDa/61kDa                                        |
| SDS-PAGE MW           | 50kDa                                                    |
| Formulation           | Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.  |
| Storage               | Store at -20°C. Avoid freeze / thaw cycles.              |

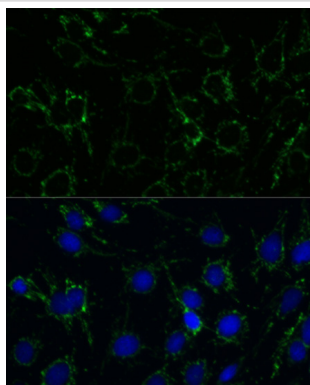
## Application Details

WB 1:500 - 1:2000IHC 1:100 - 1:200IF 1:50 - 1:200

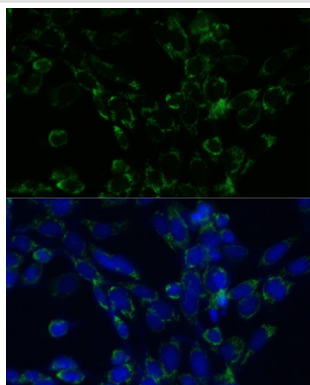
## Images



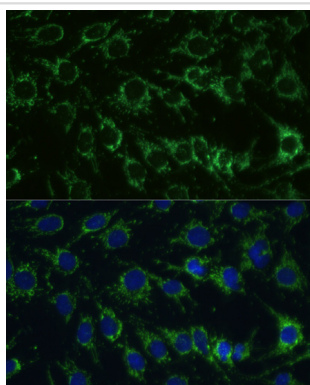
Western blot analysis of extracts of various cell lines, using GLUD1 at 1:1000 dilution.



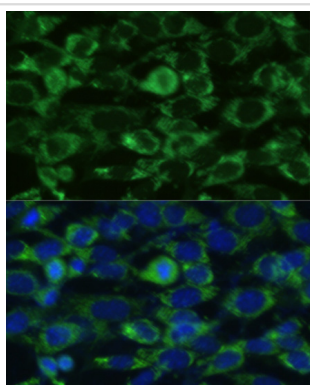
Immunofluorescence analysis of C6 cells using GLUD1 at dilution of 1:100. Blue: DAPI for nuclear staining.



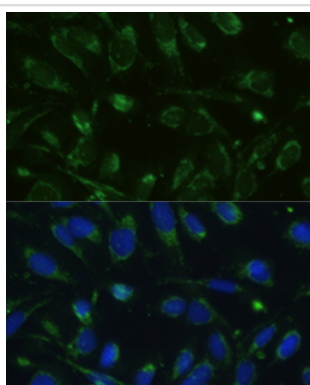
Immunofluorescence analysis of NIH-3T3 cells using GLUD1 at dilution of 1:100. Blue: DAPI for nuclear staining.



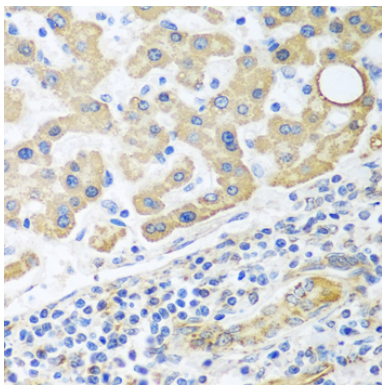
Immunofluorescence analysis of C6 cells using GLUD1 at dilution of 1:100. Blue: DAPI for nuclear staining.



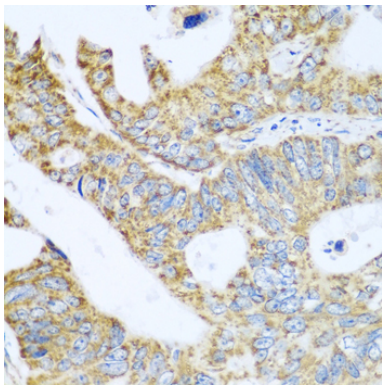
Immunofluorescence analysis of NIH-3T3 cells using GLUD1 at dilution of 1:100. Blue: DAPI for nuclear staining.



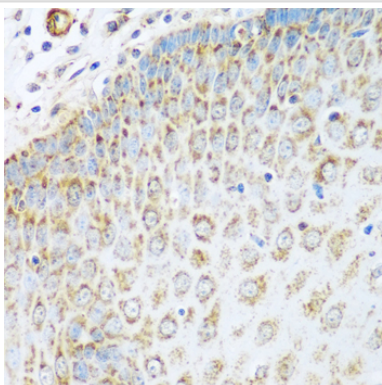
Immunofluorescence analysis of U-2 OS cells using GLUD1 at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunohistochemistry of paraffin-embedded human liver cancer using GLUD1 at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human colon carcinoma using GLUD1 at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human esophagus using GLUD1 at dilution of 1:100 (40x lens).

## 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.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.