

Datasheet for ABIN1413021

**anti-GRID1 antibody (AA 501-600) (Cy3)**[Go to Product page](#)

## Overview

|                      |                                                                                                                                |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                                         |
| Target:              | GRID1                                                                                                                          |
| Binding Specificity: | AA 501-600                                                                                                                     |
| Reactivity:          | Human                                                                                                                          |
| Host:                | Rabbit                                                                                                                         |
| Clonality:           | Polyclonal                                                                                                                     |
| Conjugate:           | This GRID1 antibody is conjugated to Cy3                                                                                       |
| Application:         | Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

## Product Details

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic peptide derived from human GRID1 |
| Isotype:              | IgG                                                       |
| Cross-Reactivity:     | Human                                                     |
| Predicted Reactivity: | Mouse,Rat,Dog,Cow,Sheep,Horse,Chicken                     |
| Purification:         | Purified by Protein A.                                    |

## Target Details

|                   |                                          |
|-------------------|------------------------------------------|
| Target:           | GRID1                                    |
| Alternative Name: | GRID1 ( <a href="#">GRID1 Products</a> ) |

## Target Details

Background: Synonyms: GluR delta 1, GluR delta 1 subunit, GluR delta-1 subunit, Glutamate receptor delta 1 subunit, Glutamate receptor delta-1 subunit, Glutamate receptor ionotropic delta 1, GRID 1, Grid1, GluD1, GRID1\_HUMAN, KIAA1220.

Background: Glutamate receptors mediate most excitatory neurotransmissions in the brain and play an important role in neural plasticity, neural development and neurodegeneration.

Ionotropic glutamate receptors are divided into two categories, namely NMDA receptors and kainate/AMPA receptors, both of which contain glutamate-gated, cation-specific ion channels.

Kainate/AMPA receptors consist of seven structurally related subunits, designated GluR-1 to -7, and are primarily responsible for fast excitatory neurotransmissions carried out by glutamate.

GluR-delta 1 (Glutamate receptor delta-1 subunit), also known as GRID1, is a multi-pass membrane protein that belongs to the kainate/AMPA receptor family and is expressed primarily in the brain. Localized to the cell junction and the postsynaptic cell membrane, GluR-delta 1 functions as a glutamate receptor that regulates synaptic transmissions in the central nervous system (CNS) and is thought to play an important role in synaptic plasticity. Defects in the gene encoding GluR-delta 1 are associated with schizophrenia, a chronic and severe brain disorder.

Gene ID: 2894

UniProt: [Q9ULK0](#)

## Application Details

Application Notes: FCM 1:20-100  
IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

Handling

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|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
|                  | handled by trained staff only.                                                    |
| Storage:         | -20 °C                                                                            |
| Storage Comment: | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. |
| Expiry Date:     | 12 months                                                                         |