Datasheet for ABIN7043235

anti-GRID1 antibody (Extracellular, N-Term)

3 Images

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Overview

Quantity:	25 µL
Target:	GRID1
Binding Specificity:	AA 407-419, Extracellular, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GRID1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Live Cell Imaging (LCI)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)KDMRKLATWDSEK, corresponding to amino acid residues 407-419 of rat GluD1
Isotype:	IgG
Characteristics:	Anti-GRID1 (extracellular) Antibody is directed against an extracellular epitope of the rat Glutamate receptor δ1. Anti-GRID1 (extracellular) Antibody (ABIN7043235, ABIN7044374 and ABIN7044375)) can be used in western blot, immunohistochemistry, and live cell imaging applications. It has been designed to recognize GluD1 from rat, mouse, and human samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	GRID1
Alternative Name:	GRID1 (GRID1 Products)
Background:	Alternative names: GRID1, Ionotropic glutamate receptor delta1, GluR delta-1 subunit, GluD1
Gene ID:	79219
NCBI Accession:	NM_017551
UniProt:	Q62640

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.8 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT,4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

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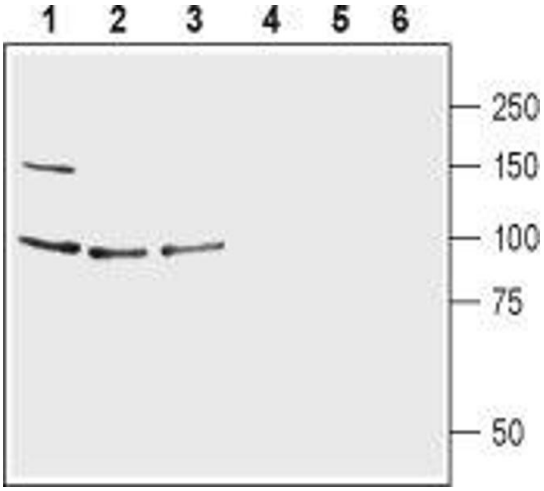
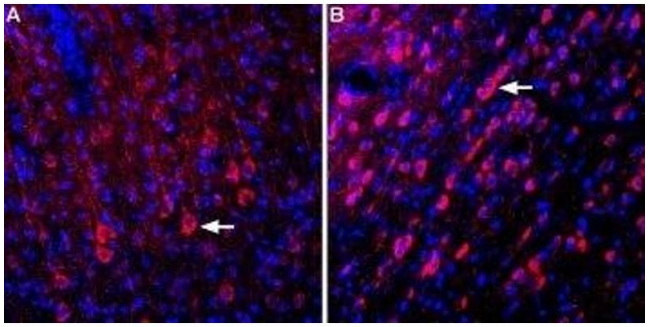


Western Blotting

Image 1. Western blot analysis of human CCF-STTG1 astrocytoma cell lysate (lanes 1 and 4), mouse brain lysate (lanes 2 and 5) and rat brain lysate (lines 3 and 6): - 1-3. Anti-GRID1 (extracellular) Antibody (ABIN7043235, ABIN7044374 and ABIN7044375), (1:200).4-6. Anti-GRID1 (extracellular) Antibody, preincubated with GRID1 (extracellular) Blocking Peptide (#BLP-GC038).



Immunohistochemistry

Image 2. Expression of Glutamate receptor δ1 in rat cortex and medial septum - Immunohistochemical staining of perfusion-fixed frozen rat brain sections using Anti-GRID1 (extracellular) Antibody (ABIN7043235, ABIN7044374 and ABIN7044375), (1:400). A. Staining in cortex. B. Staining in medial septum. In both regions, GluD1 expression (red) is detected in neurons (arrows). DAPI is used as the counterstain (blue).

Immunocytochemistry

Image 3. Expression of Glutamate receptor δ1 in rat PC12 cells - Cell surface detection of GluD1 in live intact rat PC12 pheochromocytoma cells. A. Extracellular staining of cells with Anti-GRID1 (extracellular) Antibody (ABIN7043235, ABIN7044374 and ABIN7044375), (1:50), followed by goat anti-rabbit-AlexaFluor-594 secondary antibody (red). B. Live view of the cells. C. Merge of A and B.