Datasheet for ABIN7043237

anti-GRIK1 antibody (Extracellular, N-Term)

3 Images

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Overview

Quantity:	25 µL
Target:	GRIK1
Binding Specificity:	Extracellular, N-Term
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GRIK1 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)KASGEVSKHLYKVWKK, corresponding to amino acid residues 402-417 of rat kainate receptor GluK1
Isotype:	IgG
Characteristics:	Anti-GRIK1 (GluK1) (extracellular) Antibody (ABIN7043237, ABIN7044334 and ABIN7044335)) is directed against the extracellular N-terminus domain of the rat kainate receptor GluK1. The antibody can be used in western blot and immunofluorescence applications.
Purification:	Affinity purified on immobilized antigen.

Target Details

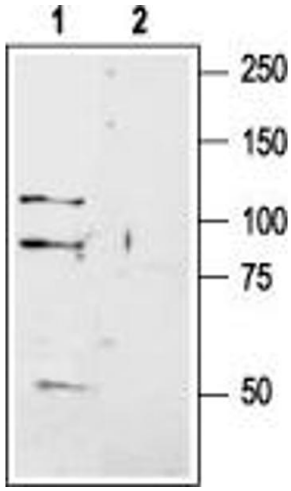
Target:	GRIK1
Alternative Name:	GRIK1 (GluK1) (GRIK1 Products)
Background:	Alternative names: GRIK1 (GluK1), Glutamate receptor ionotropic kainate 1, Glutamate receptor 5, GluR5
Gene ID:	29559
NCBI Accession:	NM_000830
UniProt:	P22756
Pathways:	Synaptic Membrane, Regulation of long-term Neuronal Synaptic Plasticity

Application Details

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

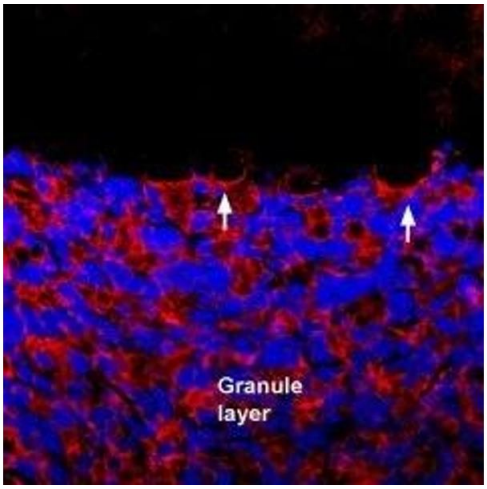
Handling

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).



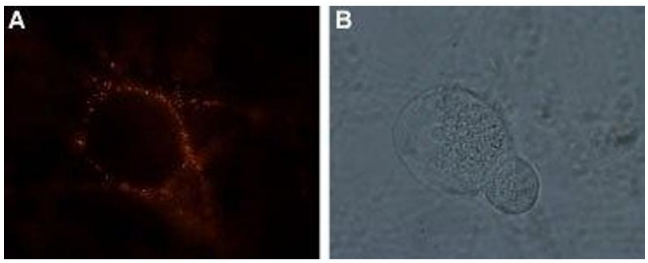
Western Blotting

Image 1. Western blot analysis of rat brain membranes: - 1. Anti-GRIK1 (GluK1) (extracellular) Antibody (ABIN7043237, ABIN7044334 and ABIN7044335), (1:200).2. Anti-GRIK1 (GluK1) (extracellular) Antibody, preincubated with GRIK1/GluK1 (extracellular) Blocking Peptide (#BLP-GC008).



Immunohistochemistry

Image 2. Expression of GluK1 in rat cerebellum - Immunohistochemical staining of perfusion-fixed frozen rat brain sections using Anti-GRIK1 (GluK1) (extracellular) Antibody (ABIN7043237, ABIN7044334 and ABIN7044335), (1:400), followed by donkey anti rabbit-Cy3 antibody. GluK1 staining (red) appears in the granule layer and in the baskets under Purkinje cells (arrows). Nuclei were labeled with DAPI and appear in blue.



Immunocytochemistry

Image 3. Expression of kainate receptor GluK1 in rat DRG neurons - Cell surface detection of kainate receptor GluK1 in living rat dorsal root ganglion (DRG). A. Extracellular staining of cells using Anti-GRIK1 (GluK1) (extracellular) Antibody (ABIN7043237, ABIN7044334 and ABIN7044335), (1:50) followed by goat anti-rabbit-AlexaFluor-555 secondary antibody (red). B. Live view of the same field.