abcam

Product datasheet

Anti-GRIP1 antibody ab25963

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Overview

Product name	Anti-GRIP1 antibody
Description	Rabbit polyclonal to GRIP1
Host species	Rabbit
Specificity	This antibody is raised against glutamate receptor-interacting protein 1
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse, Rat **Predicted to work with:** Human
Immunogen	Synthetic peptide corresponding to Mouse GRIP1 aa 1050 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab25963 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 2 µg/ml. Detects a band of approximately 135 kDa (predicted molecular weight: 122 kDa). Abcam recommends using BSA as the blocking agent.

Target

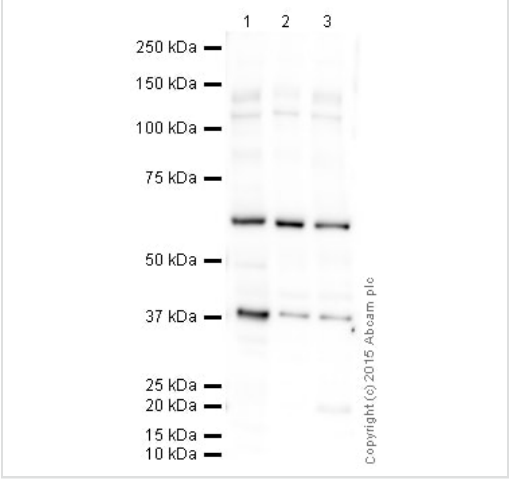
Function May play a role as a localized scaffold for the assembly of a multiprotein signaling complex and as mediator of the trafficking of its binding partners at specific subcellular location in neurons.

Sequence similarities Contains 7 PDZ (DHR) domains.

Domain PDZ 6 mediates interaction with the PDZ recognition motif of EFNB1 and EPHB2 and with the C-terminus of PPFIA1 and PPFIA4. PDZ 4 and PDZ 5 mediate interaction with the C-terminus of GRIA2 and GRIA3. PDZ 4, PDZ 5 and PDZ 6 mediate homomultimers. PDZ 7 mediates interaction with PDZ domain of GRASP1. PDZ 7 domain binds CSPG4. PDZ 6 mediates interaction with the C-terminus of liprins-alpha. PDZ 1, PDZ 2 and PDZ 3 mediate interaction with the PDZ-binding motif of FRAS1 (By similarity). PDZ 4 and PDZ 5 mediate interaction with PRLHR.

Cellular localization Cytoplasmic vesicle. Endoplasmic reticulum. Cell junction > synapse > postsynaptic cell membrane. Cytoplasmic and membrane-associated with vesicles, peri-Golgi complexes and endoplasmic reticulum. Enriched in post-synaptic plasma membrane and post-synaptic densities.

Images



Western blot - Anti-GRIP1 antibody (ab25963)

All lanes : Anti-GRIP1 antibody (ab25963) at 1 µg/ml

Lane 1 : Brain (Mouse) Tissue Lysate - postnatal day 7
Lane 2 : Brain (Rat) Tissue Lysate - normal adult tissue
Lane 3 : Brain (Rat) Tissue Lysate - postnatal day 7

Lysates/proteins at 15 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed at 1/50000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 122 kDa
Observed band size: 135 kDa
Additional bands at: 108 kDa, 38 kDa, 60 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 2 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab25963 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution **ab133406**.

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