Anti-DCAMKL1 antibody ab37994

Overview

Product name: Anti-DCAMKL1 antibody
Description: Rabbit polyclonal to DCAMKL1
Host species: Rabbit
Tested applications: Suitable for: ICC/IF, Flow Cyt, ELISA, WB, IHC-P
Species reactivity: Reacts with: Mouse, Human
Immunogen: Synthetic peptide within Human DCAMKL1 aa 690-720 (C terminal) conjugated to keyhole limpet haemocyanin. The exact sequence is proprietary. (Peptide available as ab110799)

Properties

Form: Liquid
Storage buffer: Preservative: 0.09% Sodium azide
Constituent: PBS
Purity: Ammonium Sulphate Precipitation
Purification notes: This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab37994 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function
Probable kinase that may be involved in a calcium-signaling pathway controlling neuronal migration in the developing brain. May also participate in functions of the mature nervous system.

Tissue specificity
In fetal tissues, highly expressed in brain, detectable in lung and liver, but not in kidney. In adult tissues, expressed ubiquitously in the brain, detectable in the heart, liver, spleen, thymus, prostate, testis, ovary, small intestine and colon. The type A isoforms seem to be expressed predominantly in fetal brain whereas type B isoforms are expressed abundantly in both fetal and adult brain.

Sequence similarities
Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK subfamily. Contains 2 doublecortin domains. Contains 1 protein kinase domain.

Application | Abreviews | Notes
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ICC/IF |  | Use a concentration of 1 µg/ml.
Flow Cyt | | 1/33. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
ELISA | | 1/100.
WB | | 1/1000. Detects a band of approximately 82 kDa (predicted molecular weight: 82 kDa).
IHC-P | | 1/10 - 1/50.

Target

Images

Immunohistochemical analysis of paraffin-embedded normal mouse small intestine tissue labeling DCAMKL1 with ab37994 at 1/10 dilution
Anti-DCAMKL1 antibody (ab37994) at 1/1000 dilution + Mouse heart tissue lysate at 35 µg

**Secondary**
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/5000 dilution

**Predicted band size:** 82 kDa

**Observed band size:** 82 kDa

**Additional bands at:** 110 kDa. We are unsure as to the identity of these extra bands.

Incubation time was overnight at 4°C. Blocking/Dilution buffer: 5% NFDM/TBST.

ICC/IF image of ab37994 stained MCF7 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab37994, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.
Anti-DCAMKL1 antibody (ab37994) at 1/750 dilution (for 20 hours at 4°C) + Human brain whole tissue lysate at 22 µg

**Secondary**
- An undiluted HRP-conjugated Goat anti-rabbit polyclonal
- Developed using the ECL technique.
- Performed under reducing conditions.

**Predicted band size:** 82 kDa

**Observed band size:** 82 kDa

**Exposure time:** 3 minutes

**Blocking step:** 5% Milk for 1 hour at 18°C

**All lanes:** Anti-DCAMKL1 antibody (ab37994) at 1/8000 dilution

**Lane 1:** Human brain lysate
**Lane 2:** Mouse brain lysate
**Lane 3:** Rat brain lysate
**Lane 4:** TT whole lysate

Lysates/proteins at 20 µg per lane.

**Secondary**
- All lanes: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution

**Predicted band size:** 82 kDa

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Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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