abcam

Product datasheet

Anti-CABP antibody ab93853

2 Abreviews 1 Image

Overview

Product name	Anti-CABP antibody
Description	Rabbit polyclonal to CABP
Host species	Rabbit
Specificity	From Mar 2024, QC testing of replenishment batches of this polyclonal changed. All tested and expected application and reactive species combinations are still covered by our Abcam product promise. However, we no longer test all applications. For more information on a specific batch, please contact our Scientific Support who will be happy to help. You may also be interested in our alternative recombinant antibody, **ab128910**.
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse **Predicted to work with:** Rat, Cow, Dog
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. (Peptide available as **ab108465**)
Positive control	This antibody gave a positive signal in the following tissue lysates: Mouse brain; Mouse cerebellum; Mouse hippocampus; Mouse spinal cord.
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 ab93853 in the following tested applications.

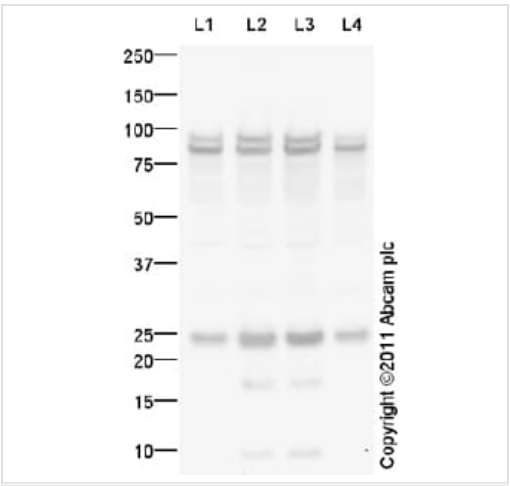
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆ **(1)**	Use a concentration of 1 µg/ml. Detects a band of approximately 25 kDa (predicted molecular weight: 25 kDa).

Target

Function	Modulates calcium-dependent activity of inositol 1,4,5-triphosphate receptors (ITPRs). Inhibits agonist-induced intracellular calcium signaling. Enhances inactivation and does not support calcium-dependent facilitation of voltage-dependent P/Q-type calcium channels. Causes calcium-dependent facilitation and inhibits inactivation of L-type calcium channels by binding to the same sites as calmodulin in the C-terminal domain of CACNA1C, but resulting in an opposit effects on channel function. Suppresses the calcium-dependent inactivation of CACNA1D (By similarity). Inhibits TRPC5 channels. Prevents NMDA receptor-induced cellular degeneration.
Tissue specificity	Retina and brain. Somatodendritic compartment of neurons. Calbrain was found exclusively in brain where it is abundant in the hippocampus, habenular area in the epithalamus and in the cerebellum.
Sequence similarities	Contains 4 EF-hand domains.
Domain	EF-1 binds magnesium constitutively under physiological conditions, EF-3 and EF-4 bind calcium cooperatively and EF-2 binds neither calcium nor magnesium.
Post-translational modifications	Phosphorylated. The phosphorylation regulates the activity.
Cellular localization	Cytoplasm > cell cortex. Cell membrane. S-CaBP1 is localized at or near the plasma membrane; Cytoplasm > cytoskeleton. Cytoplasm > perinuclear region. Cell membrane. Golgi apparatus. Cell junction > synapse > postsynaptic cell membrane > postsynaptic density. L-CaBP1 is associated most likely with the cytoskeletal structures, whereas S-CaBP1 is localized at or near the plasma membrane and Cytoplasm > cytoskeleton. L-CaBP1 is associated most likely with the cytoskeletal structures.

Images



Western blot - Anti-CABP antibody (ab93853)

All lanes : Anti-CABP antibody (ab93853) at 1 µg/ml

Lane 1 : Brain (Mouse) Tissue Lysate
Lane 2 : Cerebellum Mouse Tissue Lysate
Lane 3 : Mouse Hippocampus Tissue Lysate
Lane 4 : Spinal Cord (Mouse) Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 25 kDa
Observed band size: 25 kDa
Additional bands at: 85 kDa, 95 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 2 minutes

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