abcam

Product datasheet

Anti-alpha Adducin antibody ab51130

1 Abreviews 11 References 3 Images

Overview

Product name	Anti-alpha Adducin antibody
Description	Rabbit polyclonal to alpha Adducin
Host species	Rabbit
Specificity	There are 2 isoforms of alpha adducin on the Uniprot protein database page for mouse. The antibody immunogen has high alignment to isoform 1: Isoform 1 80 kDa 100% Isoform 2 69 kDa 30% The aduccin protein is made up of 4 subunits, including the alpha beta and gamma subunits (according to the Uniprot page), Alignment of the immunogen with the mouse beta adducin: http://www.uniprot.org/uniprot/Q9QYB8 isoform 1 100% isoform 2 30% isoform 3 100% And with the mouse gamma adducin: http://www.uniprot.org/uniprot/Q9QYB5 isoform 1 92% Isoform 2 92% The antibody has not been specifically tested for detection of the other subunits, however according to the high alignments, the antibody is likely to detect several isoforms of these beta and gamma subunits.
Tested applications	**Suitable for:** IHC-P, WB, ICC/IF
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthesized non-phosphopeptide derived from human alpha Adducin around the phosphorylation site of serine 726 (T-P-S^{P}-F-L).
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 -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 0.87% Sodium chloride, 50% Glycerol (glycerin, glycerine), PBS

	Without Mg+2 and Ca+2
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab51130 in the following tested applications.

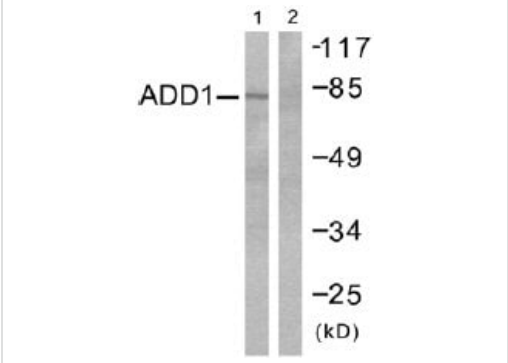
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration.
WB		1/500 - 1/1000. Detects a band of approximately 81 kDa (predicted molecular weight: 81 kDa).
ICC/IF	★★★★☆ **(1)**	Use a concentration of 1 - 5 µg/ml.

Target

Function	Membrane-cytoskeleton-associated protein that promotes the assembly of the spectrin-actin network. Binds to calmodulin.
Tissue specificity	Expressed in all tissues. Found in much higher levels in reticulocytes than the beta subunit.
Sequence similarities	Belongs to the aldolase class II family. Adducin subfamily.
Domain	Each subunit is comprised of three regions: a NH2-terminal protease-resistant globular head region, a short connecting subdomain, and a protease-sensitive tail region.
Cellular localization	Cytoplasm > cytoskeleton. Cell membrane.

Images



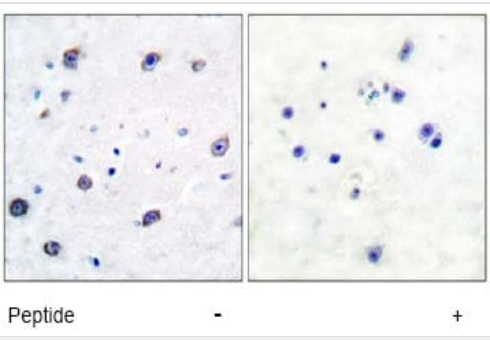
Western blot - Anti-alpha Adducin antibody (ab51130)

All lanes : Anti-alpha Adducin antibody (ab51130)

Lane 1 : Extracts from Hela cells treated with Forskolin (40nM, 30min) with no peptide

Lane 2 : Extracts from Hela cells treated with Forskolin (40nM, 30min) with with immunising peptide

Predicted band size: 81 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-alpha Adducin antibody (ab51130)

This image shows paraffin-embedded human brain tissue stained with ab51130 at a dilution of 1/100. Right hand image: tissue treated with immunising peptide; left hand image: untreated tissue

Immunocytochemistry/ Immunofluorescence - Anti-alpha Adducin antibody (ab51130)

ICC/IF image of ab51130 stained Hek293 cells. The cells were 100% methanol fixed (5 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 (ab51130, 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.

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