abcam

Product datasheet

Anti-Cip4 antibody ab72220

1 References 2 Images

Overview

Product name	Anti-Cip4 antibody
Description	Rabbit polyclonal to Cip4
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Rat, Horse, Guinea pig, Dog, Pig, Chimpanzee, Rhesus monkey, Gorilla, Chinese hamster, Orangutan, Elephant
Immunogen	A region between residues 551 and 601 of human Cip4
Positive control	HeLa cytoplasmic or membrane lysate 293T cytoplasmic or membrane lysate Mouse NIH3T3 cytoplasmic or membrane lysate
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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 6.8 Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, Tris buffered saline
Purity	Immunogen affinity purified
Purification notes	ab72220 was affinity purified using an epitope specific to Cip4 immobilized on solid support.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab72220 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		1/2000 - 1/10000. Detects a band of approximately 70 kDa (predicted molecular weight: 63 kDa).
IP		Use at 2-5 µg/mg of lysate.

Target

Function Required for translocation of GLUT4 to the plasma membrane in response to insulin signaling (By similarity). Required to coordinate membrane tubulation with reorganization of the actin cytoskeleton during endocytosis. Binds to lipids such as phosphatidylinositol 4,5-bisphosphate and phosphatidylserine and promotes membrane invagination and the formation of tubules. Also promotes CDC42-induced actin polymerization by recruiting WASL/N-WASP which in turn activates the Arp2/3 complex. Actin polymerization may promote the fission of membrane tubules to form endocytic vesicles. Required for the formation of podosomes, actin-rich adhesion structures specific to monocyte-derived cells. May be required for the lysosomal retention of FASLG/FASL.

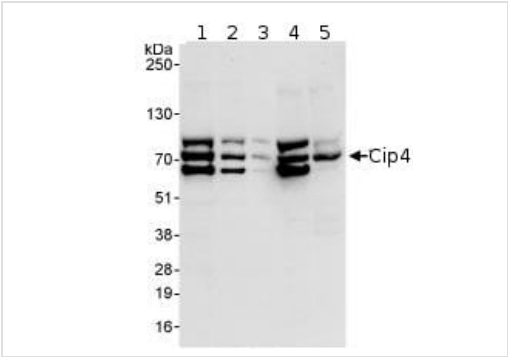
Tissue specificity Expressed in brain, colon, heart, kidney, liver, lung, megakaryocyte, ovary, pancreas, peripheral blood lymphocytes, placenta, prostate, skeletal muscle, small intestine, spleen, testis, thymus and trachea.

Sequence similarities Belongs to the FNBP1 family.
Contains 1 FCH domain.
Contains 1 REM (Hr1) repeat.
Contains 1 SH3 domain.

Post-translational modifications Tyrosine phosphorylated. Also phosphorylated by PKA.

Cellular localization Cytoplasm > perinuclear region and Cytoplasm > cytoskeleton. Cytoplasm > cell cortex. Lysosome. Golgi apparatus. Cell membrane. Cell projection > phagocytic cup. Translocates to the plasma membrane in response to insulin stimulation, and this may require active RHOQ (By similarity). Localizes to cortical regions coincident with F-actin, to lysosomes and to sites of phagocytosis in macrophages. Also localizes to the Golgi, and this requires AKAP9.

Images



Western blot - Anti-Cip4 antibody (ab72220)

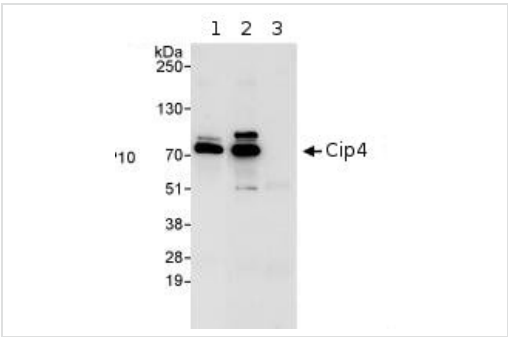
All lanes : Anti-Cip4 antibody (ab72220) at 0.04 µg/ml

Lane 1 : HeLa whole cell lysate at 50 µg
Lane 2 : HeLa whole cell lysate at 15 µg
Lane 3 : HeLa whole cell lysate at 5 µg
Lane 4 : 293T whole cell lysate at 50 µg
Lane 5 : Mouse NIH3T3 whole cell lysate at 50 µg

Developed using the ECL technique.

Predicted band size: 63 kDa
Observed band size: 70 kDa

Exposure time: 10 seconds



Immunoprecipitation - Cip4 antibody (ab72220)

Detection of Human Cip4 by Immunoprecipitation. 1mg HeLa whole cell lysate loaded in lanes 1-3 with an antibody recognising an upstream epitope in lane 1, ab72220 at 3 µg in lane 2 and control IgG in lane 3. Image shows immunoprecipitated Cip4 detected using post IP WB, loading 20% of IP and using ab72220 at 0.1 µg/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.

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