

## Product datasheet

# Anti-Cip4 antibody [EPR1966(2)] ab108277

KO VALIDATED

Recombinant

RabMAb<sup>®</sup>

3 Images

### Overview

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<b>Product name</b>	Anti-Cip4 antibody [EPR1966(2)]
<b>Description</b>	Rabbit monoclonal [EPR1966(2)] to Cip4
<b>Host species</b>	Rabbit
<b>Specificity</b>	The antibody has been tested in our lab in mouse and rat species without satisfactory results. Therefore, we do not recommend this antibody in these species.
<b>Tested applications</b>	<b>Suitable for:</b> WB <b>Unsuitable for:</b> Flow Cyt, ICC/IF, IHC-P or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: HEK293T, JAR, HepG2, TF1 and HeLa cell lysates.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal

**Clone number**                      EPR1966(2)  
**Isotype**                                IgG

## Applications

**The Abpromise guarantee**        Our **Abpromise guarantee** covers the use of ab108277 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		1/1000 - 1/10000. Detects a band of approximately 80 kDa (predicted molecular weight: 68 kDa).

**Application notes**                    Is unsuitable for Flow Cyt, ICC/IF, IHC-P or IP.

## 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.

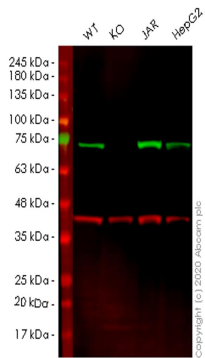
**Tissue specificity**                    Expressed in brain, colon, heart, kidney, liver, lung, megakaryocyte, ovary, pancreas, peripheral blood lymphocytes, placenta, prostate, skeletal muscle, small intestine, spleen, testis, thymus and trachea.

**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 [EPR1966(2)] (ab108277)

**All lanes** : Anti-Cip4 antibody [EPR1966(2)] (ab108277) at 1/1000 dilution

**Lane 1** : Wild-type HEK293T cell lysate

**Lane 2** : TRIP10 knockout HEK293T cell lysate

**Lane 3** : JAR cell lysate

**Lane 4** : HepG2 cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

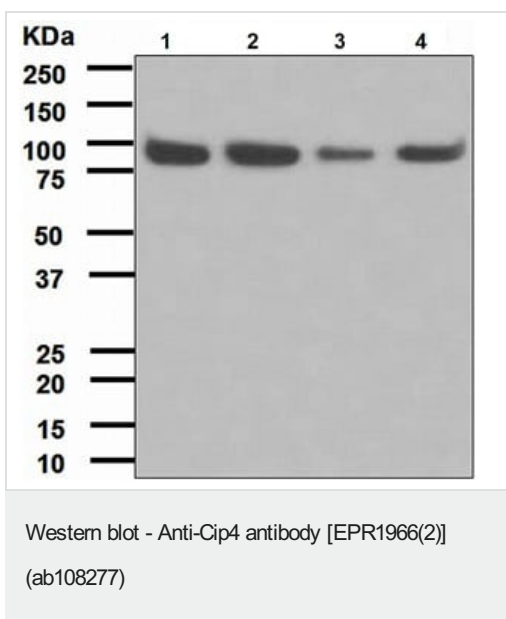
**All lanes** : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

**Predicted band size:** 68 kDa

**Observed band size:** 75 kDa

**Lanes 1-4:** Merged signal (red and green). Green - ab108277 observed at 75 kDa. Red - loading control [ab8245](#) observed at 36 kDa.

ab108277 Anti-Cip4 antibody [EPR1966(2)] was shown to specifically react with Cip4 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line [ab266428](#) (knockout cell lysate [ab258251](#)) was used. Wild-type and Cip4 knockout samples were subjected to SDS-PAGE. ab108277 and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



**All lanes :** Anti-Cip4 antibody [EPR1966(2)] (ab108277) at 1/1000 dilution

**Lane 1 :** JAR lysate

**Lane 2 :** HepG2 lysate

**Lane 3 :** TF1 lysate

**Lane 4 :** HeLa lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 68 kDa

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-Cip4 antibody [EPR1966(2)] (ab108277)

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

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