

Product datasheet

Anti-Actin Regulatory Protein CAPG/MCP antibody [EPR13194-34] ab181095

KO VALIDATED Recombinant RabMAB

★★★★★ 1 Abreviews 4 Images

Overview

Product name	Anti-Actin Regulatory Protein CAPG/MCP antibody [EPR13194-34]
Description	Rabbit monoclonal [EPR13194-34] to Actin Regulatory Protein CAPG/MCP
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment within Human Actin Regulatory Protein CAPG/MCP aa 1-200. The exact sequence is proprietary. Database link: P40121
Positive control	WB: THP-1, U937 and HeLa cell lysates.
General notes	

This product was previously labelled as Actin Regulatory Protein CAPG

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAB[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAB[®] patents](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise[™]

guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as 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 long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR13194-34
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab181095** 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 - 1/50000. Detects a band of approximately 39 kDa (predicted molecular weight: 38 kDa).

Target

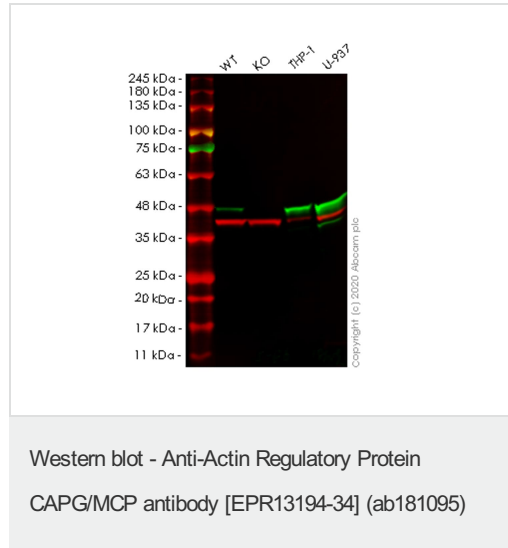
Function	Calcium-sensitive protein which reversibly blocks the barbed ends of actin filaments but does not sever preformed actin filaments. May play an important role in macrophage function. May play a role in regulating cytoplasmic and/or nuclear structures through potential interactions with actin. May bind DNA.
Tissue specificity	Macrophages and macrophage-like cells.
Sequence similarities	Belongs to the villin/gelsolin family. Contains 3 gelsolin-like repeats.
Post-translational	The N-terminus is blocked.

modifications

Cellular localization

Cytoplasm. Nucleus. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Images



All lanes : Anti-Actin Regulatory Protein CAPG/MCP antibody [EPR13194-34] (ab181095) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : CAPG knockout HeLa cell lysate

Lane 3 : THP-1 cell lysate

Lane 4 : U-937 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

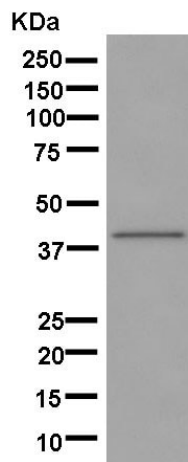
Predicted band size: 38 kDa

Observed band size: 48 kDa

[why is the actual band size different from the predicted?](#)

Lanes 1-4: Merged signal (red and green). Green - ab181095 observed at 48 kDa. Red - loading control [ab8245](#) observed at 36 kDa.

ab181095 Anti-Actin Regulatory Protein CAPG/MCP antibody [EPR13194-34] was shown to specifically react with Actin Regulatory Protein CAPG/MCP in wild-type HeLa cells. Loss of signal was observed when knockout cell line [ab265766](#) (knockout cell lysate [ab257378](#)) was used. Wild-type and Actin Regulatory Protein CAPG/MCP knockout samples were subjected to SDS-PAGE. ab181095 and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated at room temperature for 2.5 hours 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.



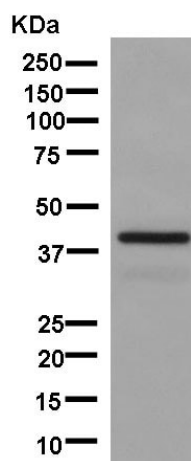
Western blot - Anti-Actin Regulatory Protein
CAPG/MCP antibody [EPR13194-34] (ab181095)

Anti-Actin Regulatory Protein CAPG/MCP antibody [EPR13194-34]
(ab181095) at 1/10000 dilution + HeLa cell lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000
dilution

Predicted band size: 38 kDa



Western blot - Anti-Actin Regulatory Protein
CAPG/MCP antibody [EPR13194-34] (ab181095)

Anti-Actin Regulatory Protein CAPG/MCP antibody [EPR13194-34]
(ab181095) at 1/50000 dilution + U937 cell lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000
dilution

Predicted band size: 38 kDa

Why choose a
recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Actin Regulatory Protein CAPG/MCP antibody
[EPR13194-34] (ab181095)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors