

Product datasheet

Anti-Cofilin antibody [EPR6375] - Loading Control ab124979

Recombinant RabMAb

[9 References](#) [6 Images](#)

Overview

Product name	Anti-Cofilin antibody [EPR6375] - Loading Control
Description	Rabbit monoclonal [EPR6375] to Cofilin - Loading Control
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF Unsuitable for: IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human Cofilin aa 1-100. The exact sequence is proprietary.
Positive control	293T and Caco-2 cell lysates.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR6375
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab124979 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. Predicted molecular weight: 19 kDa.
ICC/IF		1/50 - 1/200.

Application notes

Is unsuitable for IHC-P.

Target

Function

Controls reversibly actin polymerization and depolymerization in a pH-sensitive manner. It has the ability to bind G- and F-actin in a 1:1 ratio of cofilin to actin. It is the major component of intranuclear and cytoplasmic actin rods.

Tissue specificity

Widely distributed in various tissues.

Sequence similarities

Belongs to the actin-binding proteins ADF family.
Contains 1 ADF-H domain.

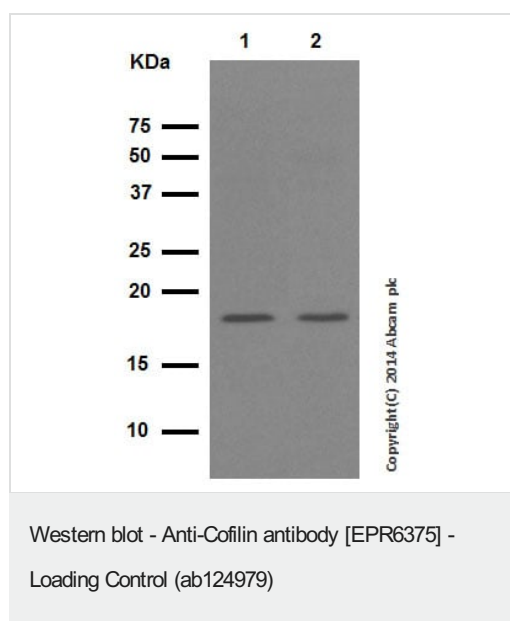
Post-translational modifications

Phosphorylated on Ser-3 in resting cells.

Cellular localization

Nucleus matrix. Cytoplasm > cytoskeleton. Almost completely in nucleus in cells exposed to heat shock or 10% dimethyl sulfoxide.

Images



All lanes : Anti-Cofilin antibody [EPR6375] - Loading Control (ab124979) at 1/1000 dilution (purified)

Lane 1 : NIH/3T3 cell lysate

Lane 2 : C6 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

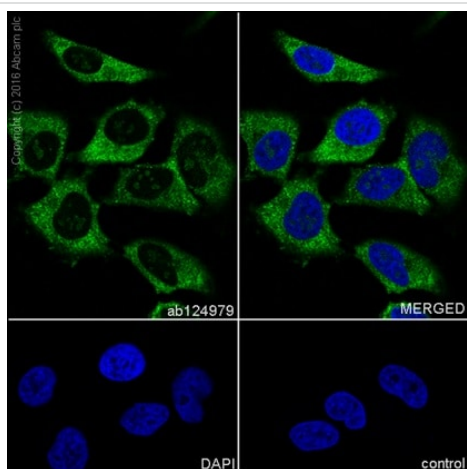
All lanes : HRP conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 19 kDa

Observed band size: 19 kDa

Blocking Buffer: 5% NFDM/TBST

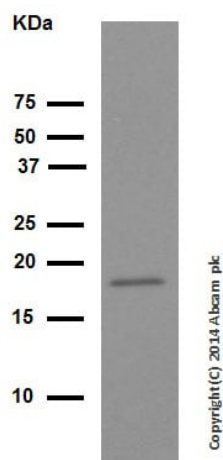
Dilution Buffer: 5% NFDM/TBST



Immunocytochemistry/ Immunofluorescence - Anti-Cofilin antibody [EPR6375] - Loading Control (ab124979)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1 % Triton X-100 permeabilized HeLa (Human epithelial cell line from cervix adenocarcinoma) cell lines labeling Cofilin with ab124979 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution.

The nuclear counterstain is DAPI (blue).



Western blot - Anti-Cofilin antibody [EPR6375] - Loading Control (ab124979)

Anti-Cofilin antibody [EPR6375] - Loading Control (ab124979) at 1/1000 dilution (purified) + HEK293 cell lysate at 10 µg

Secondary

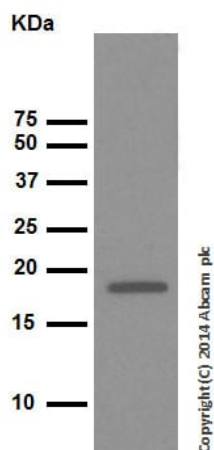
HRP conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 19 kDa

Observed band size: 19 kDa

Blocking Buffer: 5% NFDM/TBST

Dilution Buffer: 5% NFDM/TBST



Western blot - Anti-Cofilin antibody [EPR6375] -
Loading Control (ab124979)

Anti-Cofilin antibody [EPR6375] - Loading Control (ab124979) at
1/5000 dilution (purified) + Caco-2 cell lysate at 10 µg

Secondary

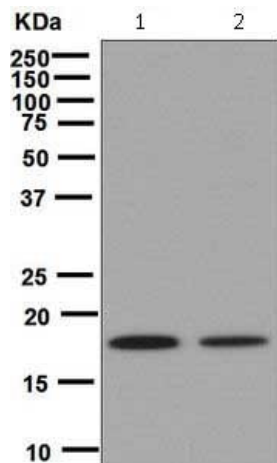
HRP conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 19 kDa

Observed band size: 19 kDa

Blocking Buffer: 5% NFDM/TBST

Dilution Buffer: 5% NFDM/TBST



Western blot - Anti-Cofilin antibody [EPR6375] -
Loading Control (ab124979)

All lanes : Anti-Cofilin antibody [EPR6375] - Loading Control
(ab124979) at 1/1000 dilution (unpurified)

Lane 1 : 293T cell lysate

Lane 2 : Caco-2 cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 19 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-Cofilin antibody [EPR6375] - Loading Control
(ab124979)

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

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