abcam

Product datasheet

Anti-Gelsolin antibody [EPR1942] - BSA and Azide free ab236029



Recombinant

RabMAb

4 Images

Overview

Product name Anti-Gelsolin antibody [EPR1942] - BSA and Azide free

Description Rabbit monoclonal [EPR1942] to Gelsolin - BSA and Azide free

Host species Rabbit

Tested applications Suitable for: IHC-P, WB

Unsuitable for: Flow Cyt (Intra),ICC/IF or IP

Species reactivity Reacts with: Human

Predicted to work with: Mouse

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Immunogen Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

Positive control IHC-P: Human kidney tissue. WB: HeLa cell lysate.

General notes ab236029 is the carrier-free version of **ab109014**.

Our <u>carrier-free</u> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.

This conjugation-ready format is designed for use with fluorochromes, metal isotopes,

oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our <u>conjugation kits</u> for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.

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.

Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C. Do Not Freeze.

Storage buffer pH: 7.2

Constituent: PBS

Carrier free Yes

Purity Protein A purified

Clonality Monoclonal
Clone number EPR1942

Isotype IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab236029 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. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Predicted molecular weight: 86 kDa.

Application notes Is unsuitable for Flow Cyt (Intra),ICC/IF or IP.

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Function Calcium-regulated, actin-modulating protein that binds to the plus (or barbed) ends of actin

monomers or filaments, preventing monomer exchange (end-blocking or capping). It can promote the assembly of monomers into filaments (nucleation) as well as sever filaments already formed.

Plays a role in ciliogenesis.

Tissue specificity Phagocytic cells, platelets, fibroblasts, nonmuscle cells, smooth and skeletal muscle cells.

Involvement in disease Defects in GSN are the cause of amyloidosis type 5 (AMYL5) [MIM:105120]; also known as

familial amyloidosis Finnish type. AMYL5 is a hereditary generalized amyloidosis due to gelsolin amyloid deposition. It is typically characterized by cranial neuropathy and lattice corneal dystrophy. Most patients have modest involvement of internal organs, but severe systemic disease can develop in some individuals causing peripheral polyneuropathy, amyloid

cardiomyopathy, and nephrotic syndrome leading to renal failure.

Sequence similarities Belongs to the villin/gelsolin family.

Contains 6 gelsolin-like repeats.

Post-translational

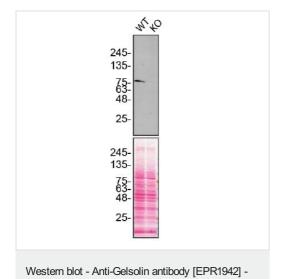
modifications

Phosphorylation on Tyr-86, Tyr-409, Tyr-465, Tyr-603 and Tyr-651 in vitro is induced in presence

of phospholipids.

Cellular localization Cytoplasm > cytoskeleton and Secreted.

Images



BSA and Azide free (ab236029)

All lanes : Anti-Gelsolin antibody [EPR1942] (**ab109014**) at 1/20000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2: GSN knockout HeLa cell lysate

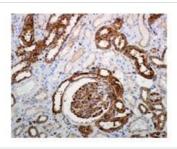
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 86 kDa

This data was developed using the same antibody in a different buffer formulation (ab109014).

ab109014 was shown to react with GSN in wild-type HeLa cells in Western blot with loss of signal observed in GSN knockout cell line ab265201 (GSN knockout cell lysate ab257204). Wild-type HeLa and GSN knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 5% milk in TBST for 1 hr before incubation with ab109014 overnight at 4 °C at a 1/20000 dilution. Blots were incubated with goat anti-rabbit HRP secondary antibodies at 1/5000 before imaging. These data were provided by YCharOS Inc., an open science company with the mission of characterizing commercially available antibody reagents for all human proteins. Abcam and YCharOS are working together to help address the reproducibility crisis by enabling the life science community to better evaluate commercially available antibodies.

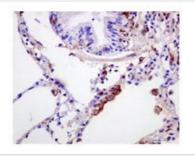


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Gelsolin antibody [EPR1942] - BSA and Azide free (ab236029)

Immunohistochemical analysis of Gelsolin expression in paraffinembedded human kidney tissue using ab109014 at 1/250 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab109014).

Heat mediated antigen retrieval was performed with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Gelsolin antibody [EPR1942] - BSA and Azide free (ab236029)

Immunohistochemical analysis of Gelsolin expression in paraffinembedded Human lung tissue using ab109014 at 1/250 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab109014).

Heat mediated antigen retrieval was performed with citrate buffer pH 6 before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Consistent and





Success from the first experiment Confirmed specificity



technology

Ethical standards compliant Animal-free production

Anti-Gelsolin antibody [EPR1942] - BSA and Azide free (ab236029)

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