abcam

Product datasheet

Anti-MYL9 antibody [EPR13012(2)] - BSA and Azide free ab236126

KO VALIDATED Recombinant RabMAb

5 Images

Overview

Product name	Anti-MYL9 antibody [EPR13012(2)] - BSA and Azide free
Description	Rabbit monoclonal [EPR13012(2)] to MYL9 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** IP, IHC-P, WB
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide within Human MYL9 aa 50-150. The exact sequence is proprietary. Database link: P24844
Positive control	IHC-P: Human and rat colon tissue. WB: HeLa and Hu colon cell lysates. IP: Human stomach tissue lysate.
General notes	Ab236126 is the carrier-free version of ab191393. This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes. Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency. Use our conjugation kits 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. ab236126 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm. *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. 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. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR13012(2)
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab236126** in the following tested applications.

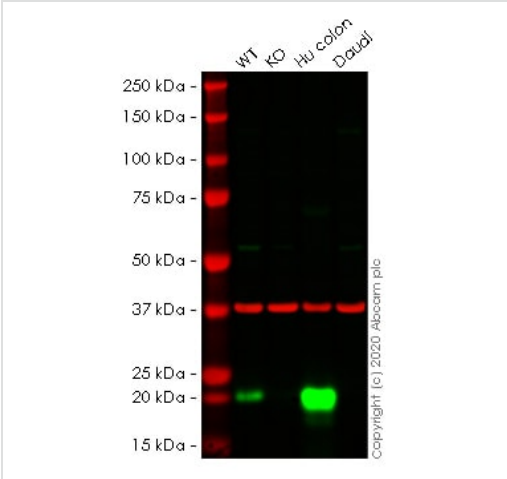
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 20 kDa (predicted molecular weight: 20 kDa).

Target

Function	Myosin regulatory subunit that plays an important role in regulation of both smooth muscle and nonmuscle cell contractile activity via its phosphorylation. Implicated in cytokinesis, receptor capping, and cell locomotion.
Tissue specificity	Smooth muscle tissues and in some, but not all, nonmuscle cells.
Sequence similarities	Contains 3 EF-hand domains.
Post-translational modifications	Phosphorylation increases the actin-activated myosin ATPase activity and thereby regulates the contractile activity. It is required to generate the driving force in the migration of the cells but not necessary for localization of myosin-2 at the leading edge.

Images



Western blot - Anti-MYL9 antibody [EPR13012(2)] - BSA and Azide free (ab236126)

All lanes : Anti-MYL9 antibody [EPR13012(2)] (ab191393) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : MYL9 knockout HeLa cell lysate
Lane 3 : Human colon cell lysate
Lane 4 : Daudi cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

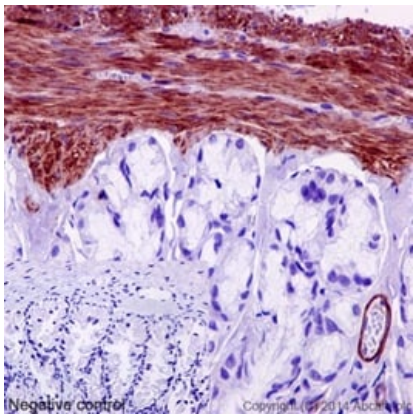
Predicted band size: 20 kDa

This data was developed using the same antibody clone in a different buffer formulation (ab191393).

Lanes 1-4: Merged signal (red and green). Green - ab191393 observed at 20 kDa. Red - loading control ab8245 observed at 37 kDa.

ab191393 Anti-MYL9 antibody [EPR13012(2)] was shown to specifically react with MYL9 in wild-type HeLa cells. Loss of signal was observed when knockout cell line ab266036 (knockout cell lysate ab256999) was used. Wild-type and MYL9 knockout samples were subjected to SDS-PAGE. ab191393 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.

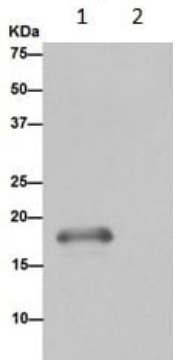


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MYL9 antibody [EPR13012(2)] - BSA and Azide free (ab236126)

Immunohistochemical analysis of paraffin-embedded Rat colon tissue labeling MYL9 with ab191393 at 1/700 dilution followed by pre-diluted HRP Polymer for Rabbit IgG secondary antibody and counter-stained with Hematoxylin. Inset: Negative control: using PBS instead of primary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab191393).

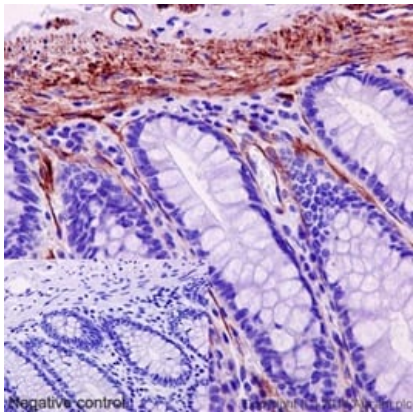
Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-MYL9 antibody [EPR13012(2)] - BSA and Azide free (ab236126)

Western blot analysis of immunoprecipitation pellet from Human stomachlysate immunoprecipitated using ab191393 at 1/40 dilution (lane 1) or PBS control (lane 2).
Secondary: Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab191393).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MYL9 antibody [EPR13012(2)] - BSA and Azide free (ab236126)

Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling MYL9 with ab191393 at 1/700 dilution followed by pre-diluted HRP Polymer for Rabbit IgG secondary antibody and counter-stained with Hematoxylin. Inset: Negative control: using PBS instead of primary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab191393).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Anti-MYL9 antibody [EPR13012(2)] - BSA and Azide free (ab236126)

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