


Product datasheet

Anti-MYO18A antibody ab81689

1 Image

Overview

Product name	Anti-MYO18A antibody
Description	Rabbit polyclonal to MYO18A
Host species	Rabbit
Tested applications	Suitable for: IP Unsuitable for: WB
Species reactivity	Reacts with: Human Predicted to work with: Chimpanzee, Rhesus monkey, Gorilla, Orangutan 
Immunogen	Synthetic peptide, corresponding to a region within amino acids 300-350 of human MYO18A (NP_510880.2).
Positive control	RIPA whole cell lysate from HeLa cells.
General notes	

ab81689 has not performed satisfactorily when used for WB of MYO18A in crude preparations (e.g. whole cell lysate). This antibody can be used for WB of enriched (e.g. immunoprecipitated) sources of MYO18A.

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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7 Preservative: 0.09% Sodium azide Constituents: 1.815% Tris, 1.764% Sodium citrate, 0.021% PBS
Purity	Immunogen affinity purified
Purification notes	ab81689 was affinity purified using an epitope specific to MYO18A immobilized on solid support.
Primary antibody notes	ab81689 has not performed satisfactorily when used for WB of MYO18A in crude preparations (e.g. whole cell lysate). This antibody can be used for WB of enriched (e.g. immunoprecipitated) sources of MYO18A.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab81689** in the following tested applications.

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

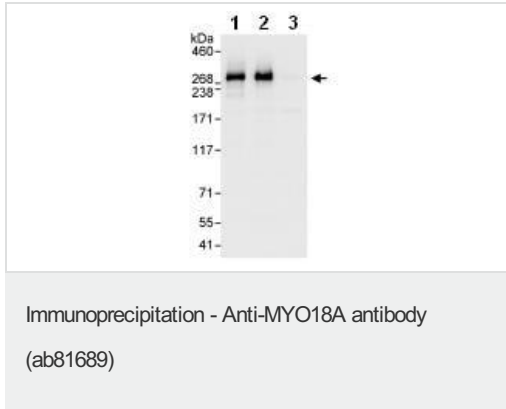
Application	Abreviews	Notes
IP		Use at 2-5 µg/mg of lysate.

Application notes Is unsuitable for WB.

Target

Relevance	Myo18A/Myosin XVIIIa is an unconventional myosin that contains a lysine and glutamine (KE) rich domain and a PDZ domain. The KE and PDZ domains appear to direct subcellular localization of the Myo18A variants. It is a dimeric actin binding protein that may play a role in the stabilization and organization of the actin cytoskeleton. Recently a cell surface form of Myo18A has been identified as the receptor for surfactant protein A, a lipid associated lung collectin that mediates innate and adaptive immune responses in the lungs.
Cellular localization	Isoform 1: Endoplasmic reticulum Golgi intermediate compartment. Cytoplasm, cytoskeleton. Note: Colocalizes with actin. Isoform 2: Cytoplasm. Note: Lacks the PDZ domain. Diffusely localized in the cytoplasm.

Images



Detection of human MYO18A by Western Blot of Immunoprecipitates.

Samples: RIPA whole cell lysate (1 mg for IP, 20% of IP loaded) from HeLa cells.

ab81689 used for IP at 3 µg/mg lysate (lane 1).

MYO18A was also immunoprecipitated using anti MYO18A (ab81690), which recognizes a downstream epitope (lane 2).

Lane 3 represents the control IgG.

For blotting immunoprecipitates, ab81689 was used at 1 µg/ml.

Detection: by Chemiluminescence with an exposure time of 1 second.

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

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