

Product datasheet

Anti-MYO9B antibody ab52026

1 Image

Overview

Product name	Anti-MYO9B antibody
Description	Goat polyclonal to MYO9B
Host species	Goat
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide: C-KNDFEPVKQSKAQ , corresponding to internal sequence amino acids 1605-1617 of Human MYO9B Run BLAST with Run BLAST with
Positive control	Human Liver lysate.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab52026 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		

Application notes

Peptide ELISA: Antibody detection limit dilution 1:2,000.
WB: Use at a concentration of 2 - 6 µg/ml. Detects a band of approximately 200 kDa (predicted molecular weight: 244 kDa).

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

Target

Function

Myosins are actin-based motor molecules with ATPase activity. Unconventional myosins serve in intracellular movements. Binds actin with high affinity both in the absence and presence of ATP and its mechanochemical activity is inhibited by calcium ions (PubMed:9490638). Also acts as a GTPase activator for RHOA (PubMed:9490638, PubMed:26529257). Plays a role in the regulation of cell migration via its role as RHOA GTPase activator. This is regulated by its interaction with the SLIT2 receptor ROBO1; interaction with ROBO1 impairs interaction with RHOA and subsequent activation of RHOA GTPase activity, and thereby leads to increased levels of active, GTP-bound RHOA (PubMed:26529257).

Tissue specificity

Detected in peripheral blood leukocytes (at protein level) (PubMed:9490638). Expressed predominantly in peripheral blood leukocytes and at lower levels, in thymus, spleen, testis, prostate, ovary, brain, small intestine and lung.

Involvement in disease

Celiac disease 4

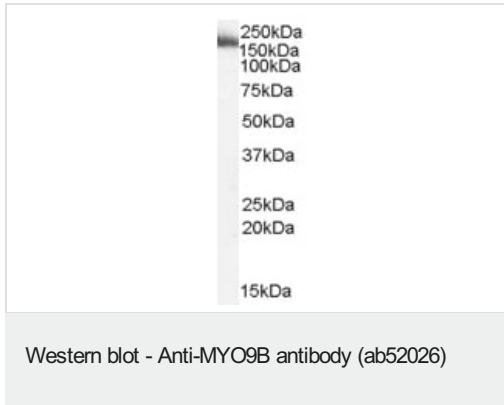
Sequence similarities

Belongs to the TRAFAC class myosin-kinesin ATPase superfamily. Myosin family.
Contains 4 IQ domains.
Contains 1 myosin motor domain.
Contains 1 phorbol-ester/DAG-type zinc finger.
Contains 1 Ras-associating domain.
Contains 1 Rho-GAP domain.

Cellular localization

Cytoplasm, cell cortex. Cytoplasm, perinuclear region. Cytoplasm, cytoskeleton. In undifferentiated cells colocalizes with F-actin in the cell periphery while in differentiated cells its localization is cytoplasmic with the highest levels in the perinuclear region.

Images



Anti-MYO9B antibody (ab52026) at 2 µg/ml + Human Liver lysate
(35µg protein in RIPA buffer).

Predicted band size: 244 kDa

Observed band size: 200 kDa

Primary incubation was 1 hour. Detected by chemiluminescence.

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

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