


## Product datasheet

### Anti-MYL12B antibody [EPR9331] ab137063

Recombinant RabMAb

★★★★★ 1 Abreviews 8 References 5 Images

#### Overview

Product name	Anti-MYL12B antibody [EPR9331]
Description	Rabbit monoclonal [EPR9331] to MYL12B
Host species	Rabbit
Specificity	Clone EPR9331 is expected to react with MYL12A, MYL12B, MYL9A, and MYL9B
Tested applications	<b>Suitable for:</b> WB, IHC-P, ICC/IF <b>Unsuitable for:</b> Flow Cyt
Species reactivity	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Jurkat, K562 and Saos 2 cell lysates; Human colon and Human kidney tissues; Jurkat cells
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

#### Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal

Clone number                      EPR9331

Isotype                                IgG

## Applications

**The Abpromise guarantee**                      Our **Abpromise guarantee** covers the use of ab137063 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 - 1/10000. Detects a band of approximately 18 kDa (predicted molecular weight: 20 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF	★★★★★ (1)	1/250 - 1/500.

**Application notes**                                Is unsuitable for Flow Cyt.

## Target

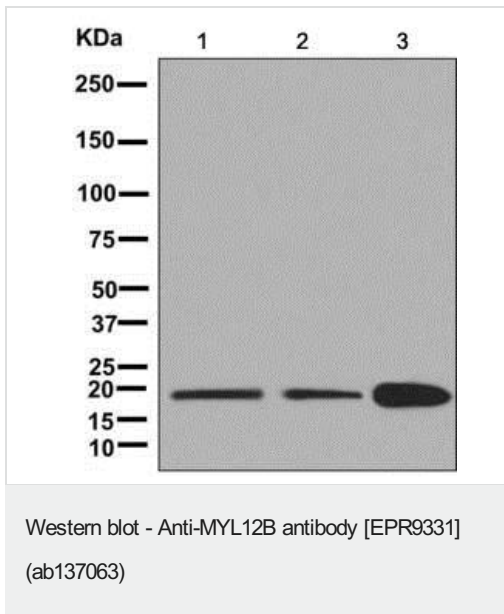
**Function**    Myosin regulatory subunit that plays an important role in regulation of both smooth muscle and nonmuscle cell contractile activity via its phosphorylation. Phosphorylation triggers actin polymerization in vascular smooth muscle. Implicated in cytokinesis, receptor capping, and cell locomotion.

**Tissue specificity**                                      Ubiquitously expressed in various hematopoietic 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. Phosphorylation is reduced following epigallocatechin-3-O-gallate treatment.

## Images



**All lanes :** Anti-MYL12B antibody [EPR9331] (ab137063) at 1/1000 dilution

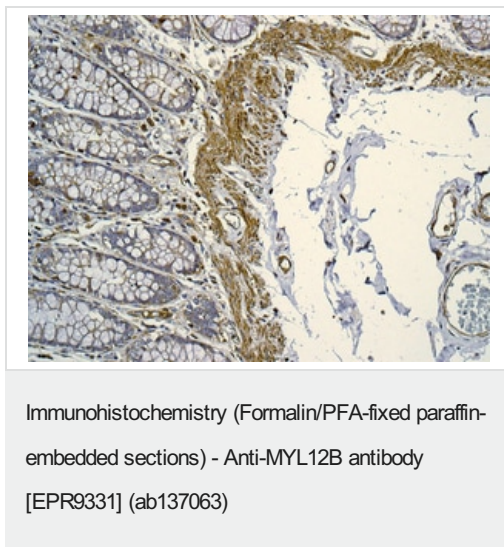
**Lane 1 :** Jurkat cell lysate

**Lane 2 :** K562 cell lysate

**Lane 3 :** Saos-2 cell lysate

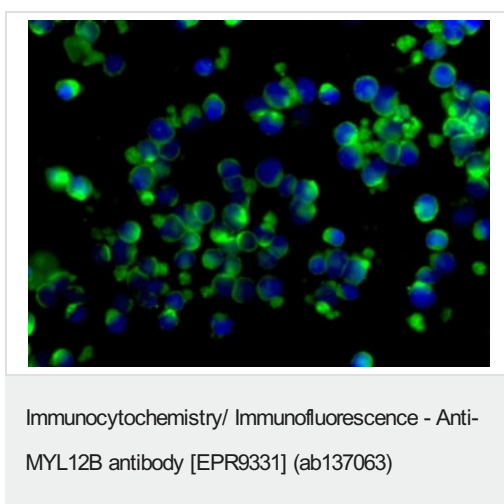
Lysates/proteins at 10 µg per lane.

**Predicted band size:** 20 kDa

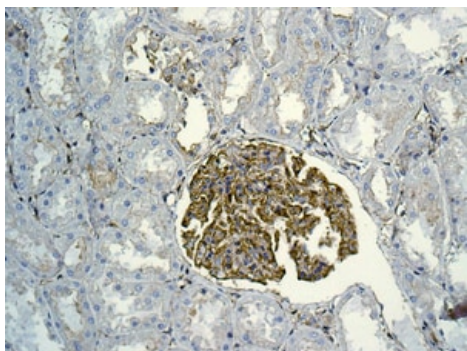


Immunohistochemical analysis of paraffin-embedded Human colon tissue labelling MYL12B with ab137063 at 1/100 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunofluorescent staining of Jurkat cells labelling MYL12B with ab137063 at 1/250 dilution.



Immunohistochemical analysis of paraffin-embedded Human kidney tissue labelling MYL12B with ab137063 at 1/100 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MYL12B antibody [EPR9331] (ab137063)

#### 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-MYL12B antibody [EPR9331] (ab137063)

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

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