

Product datasheet

Anti-TPOR/MPL antibody [EPR4194] ab109003

Recombinant RabMAb

1 References 6 Images

Overview

Product name	Anti-TPOR/MPL antibody [EPR4194]
Description	Rabbit monoclonal [EPR4194] to TPOR/MPL
Host species	Rabbit
Tested applications	Suitable for: ELISA, WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	corresponding to Human TPOR/MPL aa 600 to the C-terminus. Database link: P40238
Positive control	HepG2, A431, and Human marrow lysates.
General notes	

This product was previously labelled as TPOR

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](#).

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR4194
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab109003** 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
ELISA		Use at an assay dependent concentration.
WB		1/1000 - 1/10000. Predicted molecular weight: 71 kDa.

Target

Function Receptor for thrombopoietin. May represent a regulatory molecule specific for TPO-R-dependent immune responses.

Tissue specificity Expressed at a low level in a large number of cells of hematopoietic origin. Isoform 1 and isoform

2 are always found to be coexpressed.

Involvement in disease

Defects in MPL are a cause of congenital amegakaryocytic thrombocytopenia (CAMT) [MIM:604498]. CAMT is a disease characterized by isolated thrombocytopenia and megakaryocytopenia with no physical anomalies.

Sequence similarities

Belongs to the type I cytokine receptor family. Type 1 subfamily.
Contains 2 fibronectin type-III domains.

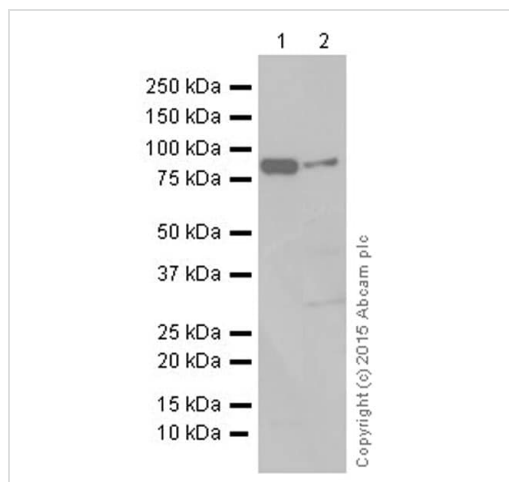
Domain

The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding.
The box 1 motif is required for JAK interaction and/or activation.

Cellular localization

Membrane.

Images



Western blot - Anti-TPOR/MPL antibody [EPR4194] (ab109003)

All lanes : Anti-TPOR/MPL antibody [EPR4194] (ab109003) at 1/5000 dilution (purified)

Lane 1 : K562 cell lysate

Lane 2 : rat spleen lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP goat anti-rabbit IgG (H+L) at 1/20000 dilution

Predicted band size: 71 kDa

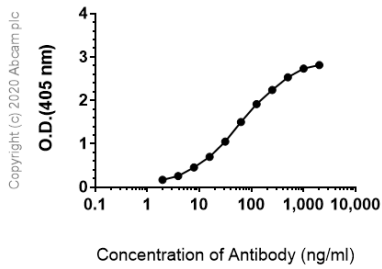
Observed band size: 82 kDa

[why is the actual band size different from the predicted?](#)

Blocking buffer: 5% NFDM/TBST

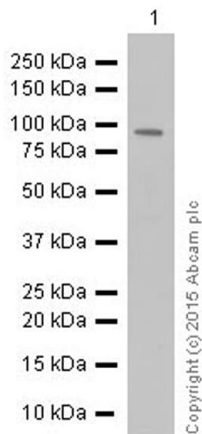
Dilution buffer: 5% NFDM/TBST

Indirect ELISA antibody dose-response curve antigen at 1000 ng/ml



ELISA - Anti-TPOR/MPL antibody [EPR4194]
(ab109003)

ELISA analysis of Human TPOR/MPL recombinant protein at 1000 ng/mL with ab109003. An Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) at 1/2500 dilution was used as the secondary antibody.



Western blot - Anti-TPOR/MPL antibody [EPR4194]
(ab109003)

Anti-TPOR/MPL antibody [EPR4194] (ab109003) at 1/1000 dilution (purified) + mouse spleen lysate at 10 µg

Secondary

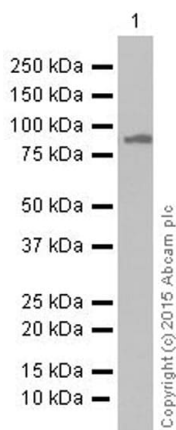
HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 71 kDa

Observed band size: 82 kDa [why is the actual band size different from the predicted?](#)

Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



Western blot - Anti-TPOR/MPL antibody [EPR4194]
(ab109003)

Anti-TPOR/MPL antibody [EPR4194] (ab109003) at 1/2500 dilution (purified) + A431 cell lysate at 10 µg

Secondary

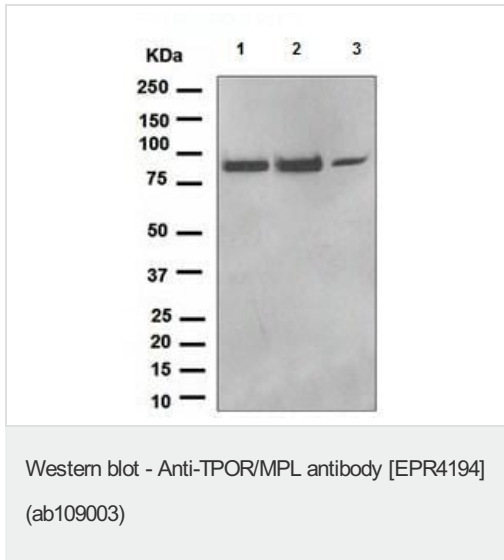
HRP goat anti-rabbit IgG (H+L) at 1/20000 dilution

Predicted band size: 71 kDa

Observed band size: 82 kDa [why is the actual band size different from the predicted?](#)

Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



All lanes : Anti-TPOR/MPL antibody [EPR4194] (ab109003) at 1/1000 dilution (unpurified)

Lane 1 : HepG2 cell lysate

Lane 2 : A431 cell lysate

Lane 3 : Human marrow lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 71 kDa

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-TPOR/MPL antibody [EPR4194] (ab109003)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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