

## Product datasheet

# Anti-Thrombopoietin antibody [EPR14948] ab196026

Recombinant **RabMAb**

[2 References](#) [6 Images](#)

### Overview

<b>Product name</b>	Anti-Thrombopoietin antibody [EPR14948]
<b>Description</b>	Rabbit monoclonal [EPR14948] to Thrombopoietin
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF, IHC-P, Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment within Human Thrombopoietin aa 200-350. The exact sequence is proprietary. Database link: <a href="#">P40225</a>
<b>Positive control</b>	Human fetal liver; Thrombopoietin recombinant protein; Human liver and bone marrow tissues; Jurkat cells.

### General notes

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

This product is a [recombinant rabbit monoclonal antibody](#).

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 59% PBS, 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR14948
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab196026** in the following tested applications.

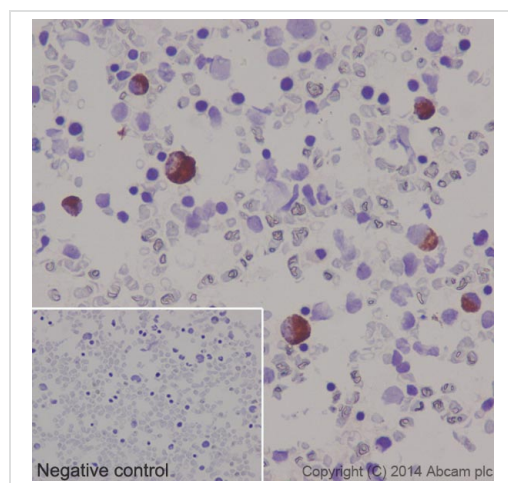
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/5000. Detects a band of approximately 38 kDa (predicted molecular weight: 38 kDa).
ICC/IF		1/50.
IHC-P		1/4000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Flow Cyt		1/40.

## Target

<b>Function</b>	Lineage-specific cytokine affecting the proliferation and maturation of megakaryocytes from their committed progenitor cells. It acts at a late stage of megakaryocyte development. It may be the major physiological regulator of circulating platelets.
<b>Involvement in disease</b>	Defects in THPO are a cause of essential thrombocythemia (ET) [MIM:187950]. ET is inherited as an autosomal dominant trait which is characterized by elevated platelet levels due to sustained proliferation of megakaryocytes, and frequently lead to thrombotic and haemorrhagic complications.
<b>Sequence similarities</b>	Belongs to the EPO/TPO family.
<b>Domain</b>	Two-domain structure with an erythropoietin-like N-terminal and a Ser/Pro/Thr-rich C-terminal.
<b>Cellular localization</b>	Secreted.

## Images

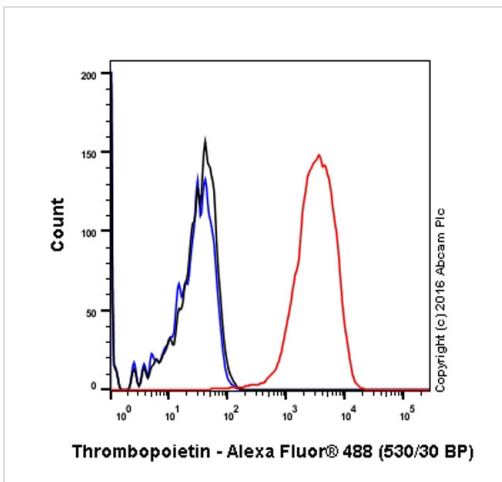


Immunohistochemical analysis of paraffin-embedded Human bone marrow tissue labeling Thrombopoietin with ab196026 at 1/4000 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution and counter-stained with Hematoxylin. (inset: negative control).

Note: Cytoplasm staining on human bone marrow tissue was observed.

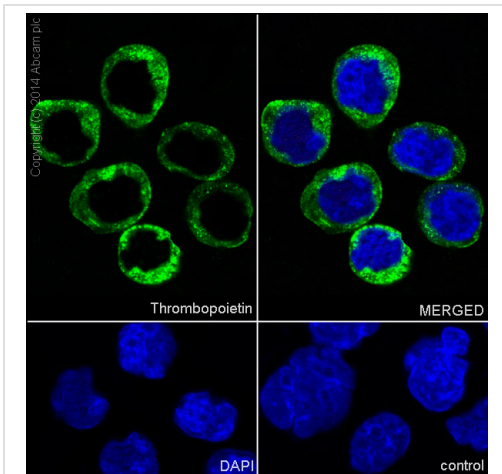
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thrombopoietin antibody [EPR14948] (ab196026)



Flow Cytometry - Anti-Thrombopoietin antibody  
[EPR14948] (ab196026)

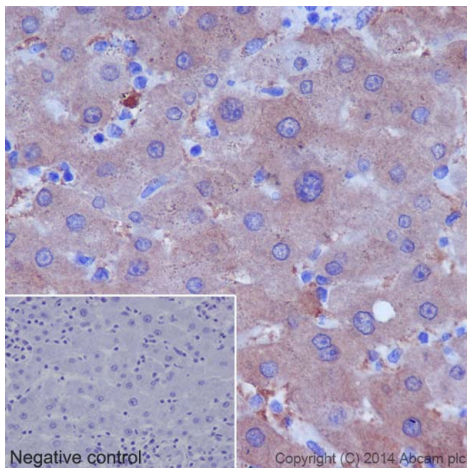
Flow Cytometry analysis of Jurkat (human acute T cell leukemia) labelling Thrombopoietin with purified ab196026 at 1/40 (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Alexa Fluor® 488 goat anti-rabbit IgG (1/2000) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.



Immunocytochemistry/ Immunofluorescence - Anti-Thrombopoietin antibody [EPR14948] (ab196026)

Immunofluorescent analysis of Jurkat cells (4% Paraformaldehyde-fixed, 0.1% tritonX-100 permeabilized) labelling Thrombopoietin with ab196026 at 1/50 dilution followed by Goat anti rabbit IgG (AlexaFluor® 488) (ab150077) secondary at 1/400 dilution and counter-stained with DAPI (blue).

Note: Cytoplasm staining on Jurkat cell line was observed.

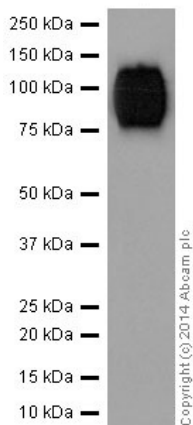


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thrombopoietin antibody [EPR14948] (ab196026)

Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling Thrombopoietin with ab196026 at 1/4000 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution and counter-stained with Hematoxylin. (inset: negative control).

Note: Cytoplasm staining on human liver tissue was observed.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



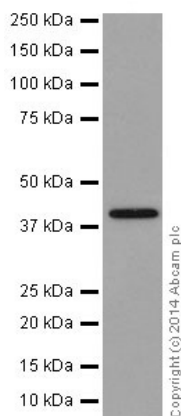
Western blot - Anti-Thrombopoietin antibody [EPR14948] (ab196026)

Anti-Thrombopoietin antibody [EPR14948] (ab196026) at 1/5000 dilution + Thrombopoietin recombinant protein at 0.01  $\mu$ g

#### Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

**Predicted band size:** 38 kDa



Western blot - Anti-Thrombopoietin antibody [EPR14948] (ab196026)

Anti-Thrombopoietin antibody [EPR14948] (ab196026) at 1/1000 dilution + Human fetal liver at 10  $\mu$ g

#### Secondary

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

**Predicted band size:** 38 kDa

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

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