

**Anti-Thrombopoietin/TPO Picoband Antibody**  
**Catalog # ABO11720****Specification**

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**Anti-Thrombopoietin/TPO Picoband Antibody - Product Information**

Application	WB, E
Primary Accession	<a href="#">P40225</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Thrombopoietin(THPO) detection. Tested with WB, ELISA in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Thrombopoietin/TPO Picoband Antibody - Additional Information**

**Gene ID** 7066

**Other Names**

Thrombopoietin, C-mpl ligand, ML, Megakaryocyte colony-stimulating factor, Megakaryocyte growth and development factor, MGDF, Myeloproliferative leukemia virus oncogene ligand, THPO, MGDF

**Calculated MW**

37823 MW KDa

**Application Details**

ELISA , 0.1-0.5 µg/ml, Human, -<br>Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Secreted.

**Protein Name**

Thrombopoietin

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

E. coli-derived human Thrombopoietin/TPO recombinant protein (Position: S22-R258). Human Thrombopoietin/TPO shares 79.3% and 80.6% amino acid (aa) sequence identity with mouse and rat Thrombopoietin/TPO, respectively.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins.

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Anti-Thrombopoietin/TPO Picoband Antibody - Protein Information**

**Name** THPO

**Synonyms** MGDF

**Function**

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.

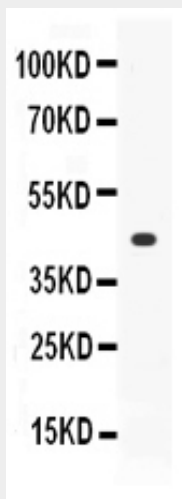
**Cellular Location**

Secreted

**Anti-Thrombopoietin/TPO Picoband Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-Thrombopoietin/TPO Picoband Antibody - Images**

Western blot analysis of Thrombopoietin/TPO expression in MCF-7 whole cell lysates (lane 1). Thrombopoietin/TPO at 45KD was detected using rabbit anti- Thrombopoietin/TPO Antigen Affinity purified polyclonal antibody (Catalog # ABO11720) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

#### **Anti-Thrombopoietin/TPO Picoband Antibody - Background**

Thrombopoietin (THPO), also known as megakaryocyte growth and development factor (MGDF), is a protein that in humans is encoded by the THPO gene. Megakaryocytopoiesis is the cellular development process that leads to platelet production. The main functional protein encoded by this gene is a humoral growth factor that is necessary for megakaryocyte proliferation and maturation, as well as for thrombopoiesis. This protein is the ligand for MLP/C\_MPL, the product of myeloproliferative leukemia virus oncogene. Mutations in this gene are the cause of thrombocythemia 1. Alternative promoter usage and differential splicing result in multiple transcript variants differing in the 5' UTR and/or coding region. Multiple AUG codons upstream of the main open reading frame (ORF) have been identified, and these upstream AUGs inhibit translation of the main ORF at different extent.