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Datasheet for ABIN7268727

## anti-MPL antibody

### 2 Images

#### Overview

Quantity:	100 µL
Target:	MPL
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This MPL antibody is un-conjugated
Application:	Western Blotting (WB)

#### Product Details

Purpose:	TPO-R/CD110/c-Mpl Rabbit mAb
Immunogen:	A synthesized peptide derived from human TPO-R/CD110/c-Mpl
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

#### Target Details

Target:	MPL
Alternative Name:	MPL ( <a href="#">MPL Products</a> )
Background:	In 1990 an oncogene, v-mpl, was identified from the murine myeloproliferative leukemia virus

## Target Details

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that was capable of immortalizing bone marrow hematopoietic cells from different lineages. In 1992 the human homologue, named, c-mpl, was cloned. Sequence data revealed that c-mpl encoded a protein that was homologous with members of the hematopoietic receptor superfamily. Presence of anti-sense oligodeoxynucleotides of c-mpl inhibited megakaryocyte colony formation. The ligand for c-mpl, thrombopoietin, was cloned in 1994. Thrombopoietin was shown to be the major regulator of megakaryocytopoiesis and platelet formation. The protein encoded by the c-mpl gene, CD110, is a 635 amino acid transmembrane domain, with two extracellular cytokine receptor domains and two intracellular cytokine receptor box motifs . TPO-R deficient mice were severely thrombocytopenic, emphasizing the important role of CD110 and thrombopoietin in megakaryocyte and platelet formation. Upon binding of thrombopoietin CD110 is dimerized and the JAK family of non-receptor tyrosine kinases, as well as the STAT family, the MAPK family, the adaptor protein Shc and the receptors themselves become tyrosine phosphorylated. [provided by RefSeq, Jul 2008],C-MPL, CD110, MPLV, THCYT2, TPOR,CDs,Hematopoietic Progenitors,Immunology & Inflammation,Stem Cells,MPL

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Molecular Weight: 82kDa

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Gene ID: 4352

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UniProt: [P40238](#)

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Pathways: [JAK-STAT Signaling](#)

## Application Details

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Application Notes: WB,1:500 - 1:2000

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

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Preservative: Sodium azide

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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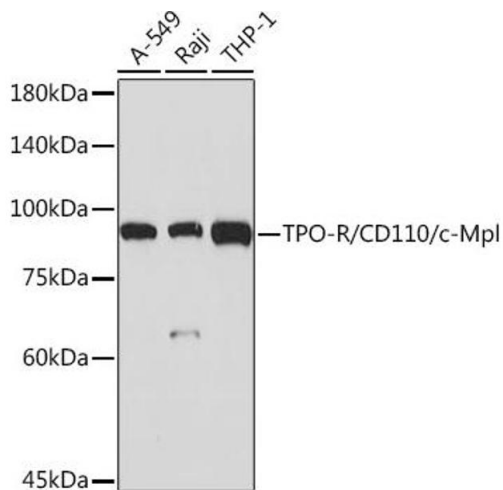
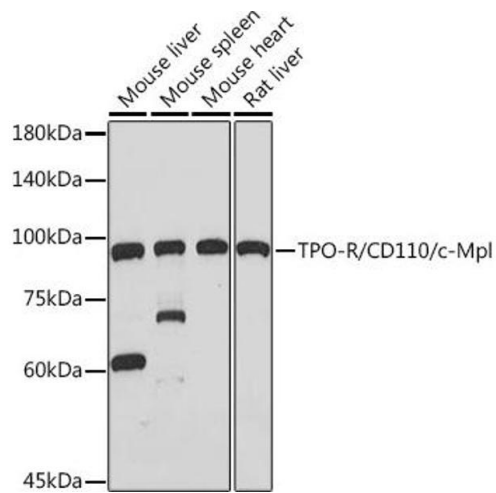
Storage: -20 °C

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## Handling

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

## Images



### Western Blotting

**Image 1.** Western blot analysis of extracts of various cell lines, using TPO-R/CD110/c-Mpl Rabbit mAb (ABIN7268727) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 60s.

### Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using TPO-R/CD110/c-Mpl Rabbit mAb (ABIN7268727) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.