

# TPO-R/CD110/c-Mpl Rabbit mAb

Catalog No.: A19729 **Recombinant** **1 Publications**

## Basic Information

### Observed MW

80kDa

### Calculated MW

71kDa

### Category

Primary antibody

### Applications

ELISA,WB

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC2257

## Background

In 1990 an oncogene, v-mpl, was identified from the murine myeloproliferative leukemia virus 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.

## Recommended Dilutions

WB 1:500 - 1:2000

## Immunogen Information

### Gene ID

4352

### Swiss Prot

P40238

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 536-635 of human TPO-R/CD110/c-Mpl (P40238).

### Synonyms

MPLV; TPOR; C-MPL; CD110; THPOR; THCYT2; TPO-R/CD110/c-Mpl

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

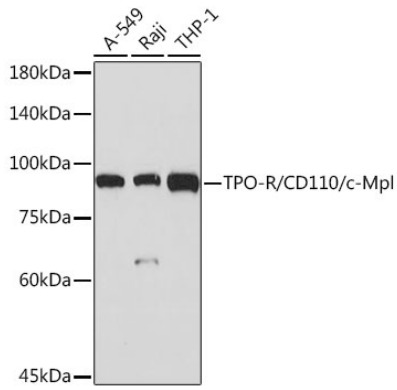
Affinity purification

### Storage

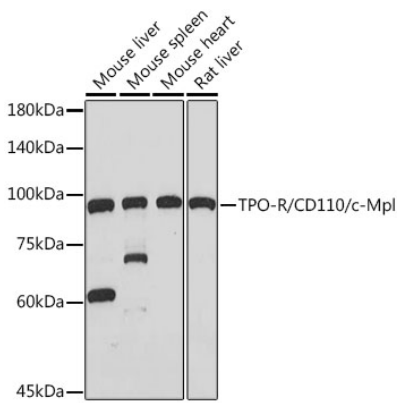
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

## Validation Data



Western blot analysis of extracts of various cell lines, using TPO-R/CD110/c-Mpl Rabbit mAb (A19729) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 1s.



Western blot analysis of extracts of various cell lines, using TPO-R/CD110/c-Mpl Rabbit mAb (A19729) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 60s.