

## CD110 Polyclonal Antibody

<b>Catalog No :</b>	YT5469
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	CD110
<b>Fields :</b>	>>Cytokine-cytokine receptor interaction;>>JAK-STAT signaling pathway
<b>Gene Name :</b>	MPL
<b>Protein Name :</b>	Thrombopoietin receptor
<b>Human Gene Id :</b>	4352
<b>Human Swiss Prot No :</b>	P40238
<b>Mouse Gene Id :</b>	17480
<b>Mouse Swiss Prot No :</b>	Q08351
<b>Immunogen :</b>	Synthesized peptide derived from Thrombopoietin receptor at AA range: 321-370
<b>Specificity :</b>	CD110 Polyclonal Antibody detects endogenous levels of CD110 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC: 1:100-1:300. ELISA: 1:20000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 69,40kD

**Cell Pathway :** Cytokine-cytokine receptor interaction;Jak\_STAT;

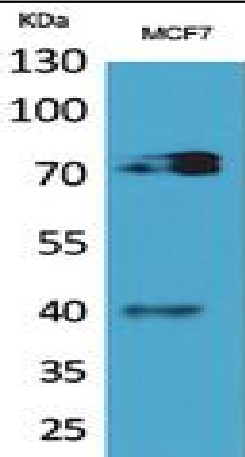
**Background :** In 1990 an oncogene, v-mpl, was identified from the murine myeloproliferative leukemia virus that was capable of immortalizing bone marrow hematopoietic cells from different lineages. In 1992 the human homologue, named, c-mpl, was cloned. Sequence data revealed that c-mpl encoded a protein 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

**Function :** caution:It is uncertain whether Met-1 or Met-8 is the initiator.,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.,domain:The box 1 motif is required for JAK interaction and/or activation.,domain:The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding.,function:Receptor for thrombopoietin. May represent a regulatory molecule specific for TPO-R-dependent immune responses.,similarity:Belongs to the type I cytokine receptor family. Type 1 subfamily.,similarity:Contains 2 fibronectin type-III domains.,subunit:Interacts with ATXN2L.,tissue specificity:Expressed at a low level in a large number of cells of hematopoietic origin. Isoform 1 and

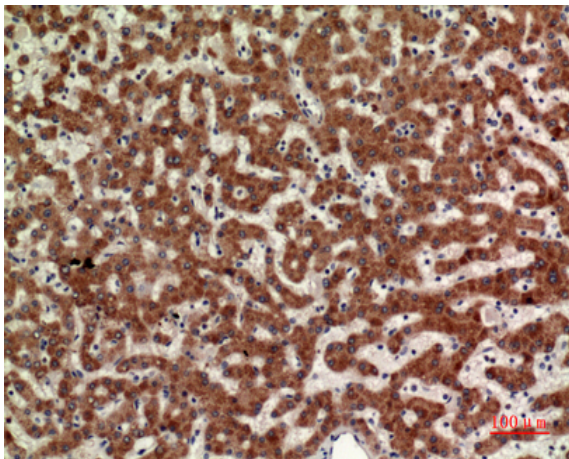
**Subcellular Location :** Cell membrane ; Single-pass type I membrane protein. Golgi apparatus . Cell surface .

**Expression :** 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.

## Products Images



Western Blot analysis of MCF7 cells using CD110 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100