

Product Name: MPL Mouse Monoclonal Antibody

Catalog #: AMM81077

For research use only.

Summary

Description Mouse monoclonal Antibody

HostMouseApplicationELISA,FCReactivityHuman

ConjugationUnconjugatedModificationUnmodifiedIsotypeMouse IgG2bClonalityMonoclonalFormLiquid

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Buffer Purified antibody in PBS with 0.05% sodium azide

Purification Affinity Purification

Application

Concentration

Dilution Ratio ELISA 1:5000-1:20000,FC 1:200-1:400

1mg/ml

Molecular Weight 71.2kDa

Antigen Information

Gene Name MPL

Alternative Names MPLV; TPOR; C-MPL; CD110

 Gene ID
 4352.0

 SwissProt ID
 P40238

Immunogen Purified recombinant fragment of human MPL expressed in E. Coli.

Background

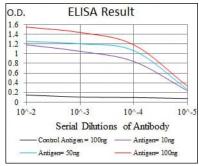
In 1990 an oncogene, v-mpl, was identified from the murine myeloproliferative leukemia virus that was capable of immortalizing bone marrow hematopoietic cells from different lineages. In 1992 the human homologue, named, c-mpl, was cloned. Sequence data revealed that c-mpl encoded a protein that was homologous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



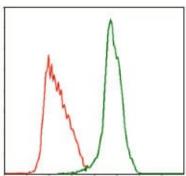
receptor superfamily. Presence of anti-sense oligodeoxynucleotides of c-mpl inhibited megakaryocyte colony formation. The ligand for c-mpl, thrombopoietin, was cloned in 1994. Thrombopoietin was shown to be the major regulator of megakaryocytopoiesis and platelet formation. The protein encoded by the 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.

Research Area

Image Data



Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);



Flow cytometric analysis of MOLT4 cells using MPL mouse mAb (green) and negative control (red).

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