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Product Information

MemDX™ Membrane Protein Human MPL (MPL proto-oncogene, thrombopoietin receptor) Expressed in *E.coli* with 6xHis tag at the N-terminus for Antibody Discovery, Partial (26-491aa)

Cat. No.: **MPX4254K**
This product is for research use only and is not intended for diagnostic use.

This product is a 56.5kDa Human MPL membrane protein expressed in *E.coli*. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
MPL

Protein Length
Partial (26-491aa)

Protein Class
Receptor

Molecular Weight
56.5kDa

TMD
1

Sequence
QDVSLLASDSEPLKCFSRTFEDLTCFWDEEEAAPSGTYQLLYAYPREKPRACPLSSQSMPHFGTRYVCQFPDQEEVRLFFPLHLW

Product Description

Expression Systems
E.coli

Tag
6xHis tag at the N-terminus

Protein Format
Soluble

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Form

Liquid or Lyophilized powder

Purity

>90% as determined by SDS-PAGE

Buffer

Tris-based buffer, 50% glycerol

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

MPL

Full Name

MPL proto-oncogene, thrombopoietin receptor

Introduction

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.

Alternative Names

MPL; MPLV; TPOR; C-MPL; CD110; THPOR; THCYT2; thrombopoietin receptor; TPO-R; myeloproliferative leukemia protein; myeloproliferative leukemia virus oncogene; proto-oncogene c-Mpl; MPL proto-oncogene, thrombopoietin receptor

Gene ID

4352

UniProt ID

P40238

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