

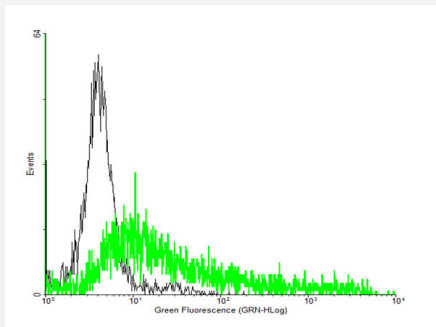
MaxPab®

MPL purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00004352-B01P

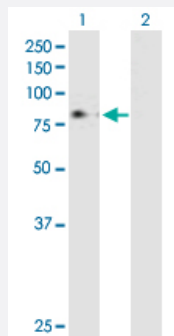
Size 50 ug

Applications



Flow Cytometry

FACS analysis of negative control 293 cells (Black) and MPL expressing 293 cells (Green) using MPL purified MaxPab mouse polyclonal antibody.



Western Blot (Transfected lysate)

Western Blot analysis of MPL expression in transfected 293T cell line ([H00004352-T01](#)) by MPL MaxPab polyclonal antibody.

Lane1:MPL transfected lysate(69.85 KDa).

Lane2:Non-transfected lysate.

Specification

Product Description

Mouse polyclonal antibody raised against a full-length human MPL protein.

Immunogen

MPL (NP_005364, 1 a.a. ~ 635 a.a) full-length human protein.

Sequence	MPSWALFMVTSCLLAPQNLAQVSSQDVSLASDSEPLKCFSRTFEDLTFCFWDEEEAAPSGTY QLLYAYPREKPRACPLSSQSMPHFGTRYVCQFPDQEEVRLFFPLHLWVKNVFLNQTRTQRVLFV DSVGLPAPPSIIKAMGGSQPGELQISWEEPAPESDFLRYELRYGPRDPKNSTGPTVIQLIATETCC PALQRPHSASALDQSPCAQPTMPWQDGPQKQTSREASALTAEGGSCLISGLQPGNSYWLQLR SEPDISLGGSWGSWSLPVTVDLPGDAVALGLQCFTLDLKNVTCQWQQQDHASSQGFFYHSRA RCCPRDRYPWENCEEEEEKTNPGLQTPQFSRCHFKSRNDSIIHILVEVTTAPGTVHSYLGSPFWIH QAVRLPTPNLHWREISSGHLELEWQHPSSWAAQETCYQLRYTGEGHQDWKVLEPPLGARGGTL ELRPRSRYRLQLRARLNGPTYQGPWSSWSDPTRVETATETAWISLVTAHLVLGLSAVLGLLLLR WQFPAHYRRLRHALWPSLPDLHRVLGQYLRDTAALSPPKATVSDTCEEVEPSLLEILPKSSERTP LPLCSSQAQMDYRRLQPSCLGTMPLSVCPMAESGSCCTTHIANHSYLPLSYWQQP
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (81); Rat (79)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Flow Cytometry

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[Protocol Download](#)

Gene Info — MPL

Entrez GeneID	4352
GeneBank Accession#	NM_005373
Protein Accession#	NP_005364

Gene Name	MPL
Gene Alias	C-MPL, CD110, MPLV, TPOR
Gene Description	myeloproliferative leukemia virus oncogene
Omim ID	159530 187950 604498
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	OTTHUMP00000008582 thrombopoietin receptor

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Jak-STAT signaling pathway](#)

Disease

- [Blast Crisis](#)
- [Bone Marrow Diseases](#)
- [Chronic Disease](#)
- [Disease Progression](#)
- [Genetic Predisposition to Disease](#)
- [Leukemia](#)
- [Myelofibrosis](#)

- [Myeloproliferative Disorders](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Polycythemia Vera](#)
- [Primary Myelofibrosis](#)
- [Thrombocythemia](#)
- [Thrombocytosis](#)