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MPL Antibody (C-Term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22313b

Specification

MPL Antibody (C-Term) - Product Information

Application	**WB,E**
Primary Accession	P40238
Other Accession	P40931, Q08351
Reactivity	**Mouse**
Predicted	**Human**
Host	**Rabbit**
Clonality	**polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**71245**

MPL Antibody (C-Term) - Additional Information

Gene ID 4352

Other Names
Thrombopoietin receptor, TPO-R, Myeloproliferative leukemia protein, Proto-oncogene c-Mpl, CD110, MPL, TPOR

Target/Specificity
This MPL antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 514-546 amino acids from the human region of human MPL.

Dilution
WB~~1:2000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
MPL Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

MPL Antibody (C-Term) - Protein Information

Name MPL

Synonyms TPOR

Function Receptor for thrombopoietin that regulates hematopoietic stem cell renewal, megakaryocyte differentiation, and platelet formation. Upon activation by THPO, induces rapid tyrosine phosphorylation and activation of JAK2, providing docking sites for many signaling proteins such as STAT5, SHIP/INPP5D, GRB2, SOS1 and PI3K (PubMed:15899890, PubMed:37633268). In turn, These signaling cascades lead to the proliferation, survival, and differentiation of megakaryocytes, ultimately leading to increased platelet production.

Cellular Location
Cell membrane; Single-pass type I membrane protein. Golgi apparatus Cell surface

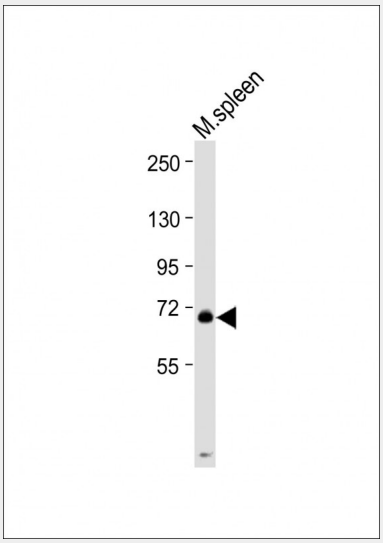
Tissue Location
Expressed at a low level in a large number of cells of hematopoietic origin. Isoform 1 and isoform 2 are always found to be coexpressed

MPL Antibody (C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MPL Antibody (C-Term) - Images



Anti-MPL Antibody (C-Term) at 1:2000 dilution + Mouse spleen lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 70 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

MPL Antibody (C-Term) - Background

Receptor for thrombopoietin. May represent a regulatory molecule specific for TPO-R-dependent immune responses.

MPL Antibody (C-Term) - References

Vigon I.,et al.Proc. Natl. Acad. Sci. U.S.A. 89:5640-5644(1992).
Mignotte V.,et al.Genomics 20:5-12(1994).
Gregory S.G.,et al.Nature 441:315-321(2006).
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Saur S.J.,et al.Blood 115:1254-1263(2010).