

Datasheet for ABIN5611182
anti-MPL antibody (AA 26-175)[Go to Product page](#)

4 Images

Overview

Quantity:	0.1 mg
Target:	MPL
Binding Specificity:	AA 26-175
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Neutralization (Neut)

Product Details

Immunogen:	Purified recombinant fragment of human CD110 (AA: extra 26-175) expressed in E. coli.
Clone:	1D6B7
Isotype:	IgG2a
Purification:	purified

Target Details

Target:	MPL
Alternative Name:	CD110 (MPL Products)
Background:	Description: 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

Target Details

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.

Aliases: MPL, MPLV, TPOR, C-MPL, THCYT2

Molecular Weight:	71.2 kDa
-------------------	----------

Gene ID:	4352
----------	------

HGNC:	4352
-------	------

Pathways:	JAK-STAT Signaling
-----------	------------------------------------

Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, ICC: N/A, FCM: 1:200 - 1:400, IHC: N/A
--------------------	--

Restrictions:	For Research Use only
---------------	-----------------------

Handling

Format:	Liquid
---------	--------

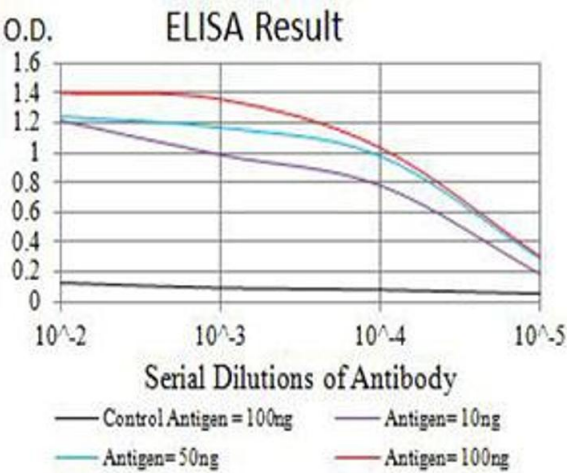
Buffer:	Purified antibody in PBS with 0.05 % sodium azide
---------	---

Preservative:	Sodium azide
---------------	--------------

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
--------------------	--

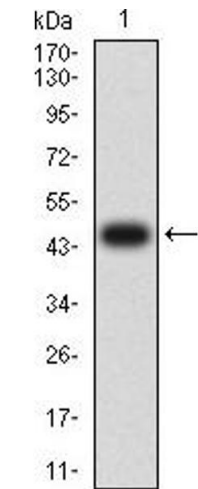
Storage:	4 °C/-20 °C
----------	-------------

Storage Comment:	4°C, -20°C for long term storage
------------------	----------------------------------



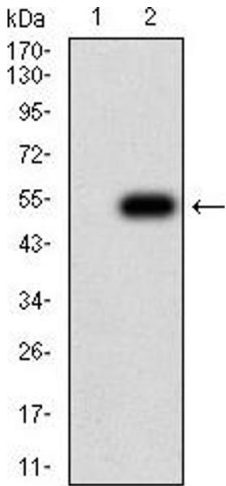
ELISA

Image 1. Black line: Control Antigen (100 ng),Purple line: Antigen (10 ng), Blue line: Antigen (50 ng), Red line:Antigen (100 ng)



Western Blotting

Image 2. Western blot analysis using CD110 mAb against human CD110 (AA: extra 26-175) recombinant protein. (Expected MW is 47.2 kDa)



Western Blotting

Image 3. Western blot analysis using CD110 mAb against HEK293 (1) and CD110 (AA: extra 26-175)-hlgGfc transfected HEK293 (2) cell lysate.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN5611182.