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CD110

Purified Mouse Monoclonal Antibody
Catalog # AO2656a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	P40238
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1D6B7
Isotype	Mouse IgG2a
Calculated MW	71245
Immunogen	Purified recombinant fragment of human CD110 (AA: extra 26-175) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	4352
Other Names	MPL; MPLV; TPOR; C-MPL; THCYT2
Dilution	WB~~ 1/500 - 1/2000 IHC~~1:100~500 ICC~~N/A E~~ 1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CD110 is for research use only and not for use in diagnostic or therapeutic procedures.

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

References

1.Haematologica. 2015 Sep;100(9):e341-4.2.Blood. 2012 Jul 26;120(4):868-79.

Images

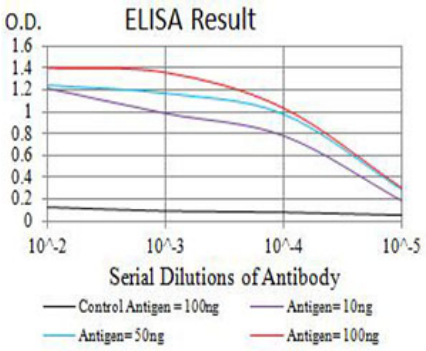


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

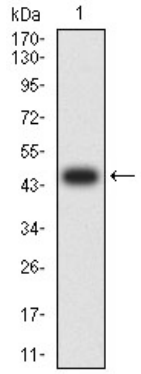


Figure 2:Western blot analysis using CD110 mAb against human CD110 (AA: extra 26-175) recombinant protein. (Expected MW is 47.2 kDa)

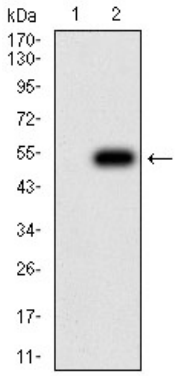
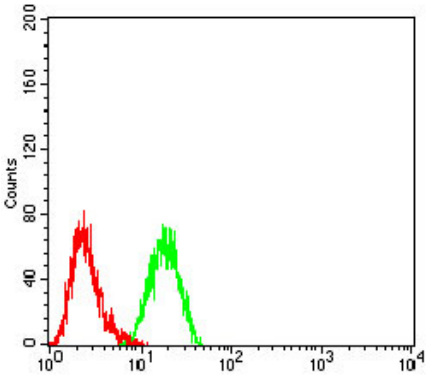


Figure 3:Western blot analysis using CD110 mAb against HEK293 (1) and CD110 (AA: extra 26-175)-hIgGFc transfected HEK293 (2) cell lysate.

Figure 4:Flow cytometric analysis of K562 cells using CD110 mouse mAb (green) and negative control (red).



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.