

Datasheet for ABIN7275276 MPL Protein (AA 26-491) (His tag)

3 Images

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Overview

Quantity:	100 µg
Target:	MPL
Protein Characteristics:	AA 26-491
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MPL protein is labelled with His tag.

Product Details

Purpose:	Human c-MPL/Thrombopoietin R Protein
Sequence:	Gln26-Trp491
Characteristics:	Recombinant Human c-MPL/Thrombopoietin R Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln26-Trp491.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human c-MPL, His Tag at 0.2µg/ml (100µl/Well) on the plate. Dose response curve for Anti-c-MPL Antibody, hFc Tag with the EC50 of 9.1ng/ml determined by ELISA. See testing image for detail.

Target Details

Target:	MPL
Alternative Name:	c-MPL (MPL Products)
Background:	The c-mpl gene encodes a member of the hematopoietic cytokine receptor superfamily. This gene was discovered through the study of a murine retrovirus which induces an acute myeloproliferative syndrome in mice. MPLV (for myeloproliferative leukemia virus) has transduced a truncated and constitutively activated form of the c-mpl receptor chain. High levels of c-mpl expression were detected in 45 % of acute myeloid leukemia (AML). No correlation was found between c-mpl expression and the French-American-British classification subtype of AML.
Molecular Weight:	53.6 kDa. Due to glycosylation, the protein migrates to 68-70 kDa based on Tris-Bis PAGE result.
Pathways:	JAK-STAT Signaling

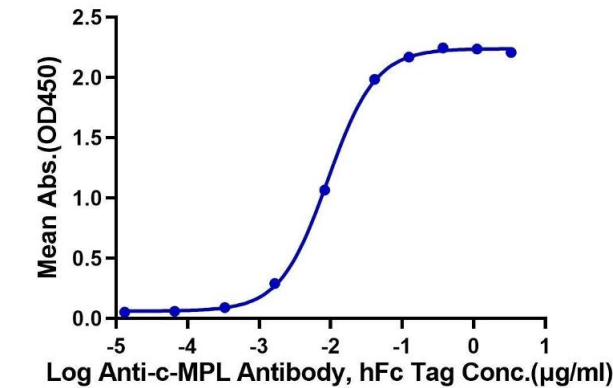
Application Details

Restrictions:	For Research Use only
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Handling

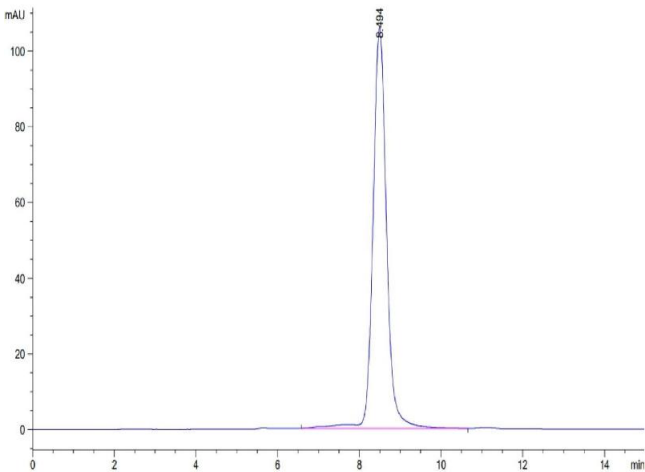
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

Human c-MPL, His Tag ELISA
0.02µg Human c-MPL, His Tag Per Well



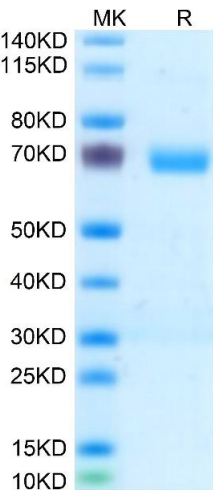
ELISA

Image 1. Immobilized Human c-MPL, His Tag at 0.2 µg/mL (100 µL/Well) on the plate. Dose response curve for Anti-c-MPL Antibody, hFc Tag with the EC50 of 9.1 ng/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human c-MPL/Thrombopoietin R is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 3. Human c-MPL/Thrombopoietin R on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .