

RP02785

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# Recombinant Human Thrombopoietin R/MPL/CD110 Protein

Catalog No.: RP02785

Recombinant

## Sequence Information

| Species      | Gene ID | Swiss Prot |
|--------------|---------|------------|
| HEK293 cells | 4352    | P40238     |

### Tags

C-His

### Synonyms

TPO-R; CD110; MPL; c-Mpl; MPLV; K12

## 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.

## Basic Information

## Product Information

### Source

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

### Purification

≥ 95 % as determined by SDS-PAGE. ≥ 95 % as determined by HPLC.

### Description

Recombinant Human Thrombopoietin R/MPL/CD110 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln26-Trp491) of human Thrombopoietin R/MPL (Accession #NP\_005364.1) fused with a 6×His tag at the C-terminus.

### Bio-Activity

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 EC<sub>50</sub> of 9.1 ng/ml determined by ELISA.

### Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

### Storage

Store at -20°C  
Avoid repeated freeze/thaw cycles.

### Endotoxin

< 1 EU/µg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the tube before opening.  
Reconstitute to a concentration of  
0.1-0.5 mg/mL in sterile distilled water.  
Avoid vortex or vigorously pipetting  
the protein. For long term storage, it is  
recommended to add a carrier protein  
or stabilizer (e.g. 0.1% BSA, 5% HSA,  
10% FBS or 5% Trehalose), and aliquot  
the reconstituted protein solution to  
minimize free-thaw cycles.

## Contact

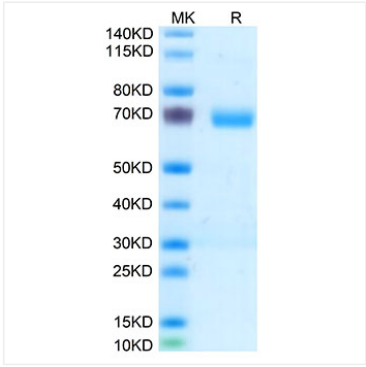
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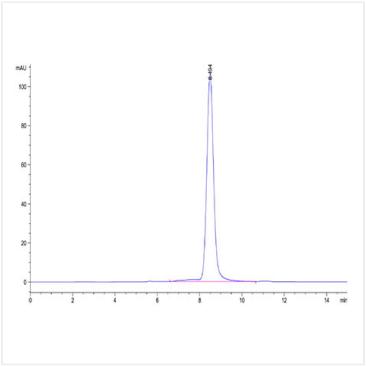
[www.abclonal.com](http://www.abclonal.com)

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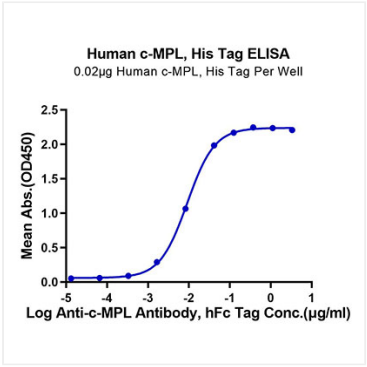
Validation Data



Recombinant Human Thrombopoietin R/MPL/CD110 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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



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 EC<sub>50</sub> of 9.1ng/ml determined by ELISA.