

Code No. 10401

Anti-Mouse c-MPL/TPOR (AMM2) Rat IgG MoAb

: 100 µg Volume

Introduction

: Thrombopoietin promotes the growth and differentiation (proliferation) of megakaryocytes which produce platelets. TPOR (Thrombopoietin receptor), which is also called c-MPL (Myeloproliferative leukemia protèin) or CD110, is a receptor for thrombopoietin. And it is suggested that TPOR may also play a role in the maintenance of hematopoietic stem cells, which are stem cells located within the bone marrow that have the potential to develop into red blood cells, white blood cells, megakaryocytes and platelets. This receptor is activated when thrombopoietin protein binds to it, and the activated receptor stimulates a signaling pathway called the JAK/STAT pathway, which transmits signals from outside the cell to the cell's nucleus and is important for controlling the production of blood cells.

This antibody specifically reacts with mouse c-MPL/TPOR protein, and has neutralization

activity to the reaction with thrombopoietin ligand (ref. 5).

Antigen : Recombinant protein of mouse c-MPL extracellular domain

: Mouse-Rat hybridoma Source

(P3X63-Ag.8.653 × Wistar rat spleen cells, supernatant)

Clone : AMM2 **Subclass** : IgG₁

Purification : Affinity purified with Protein G

Form : Lyophilized product in PBS containing 1 % BSA and 0.05 % NaN₃

How to use : 1.0 mL deionized water will be added to the product, then its concentration comes to

100 μg/mL

Lyophilized product, 5 years at 2 - 8 °C Stability

Solution, 2 years at -20 °C

This antibody can be used for western blotting in concentration of 1 - 2 µg/mL. **Application**

This antibody can be used for immuno-precipitation in concentration of 1 - 2 µg /test. This antibody can be used for flow cytometry in concentration of about 1 µg/mL.

This antibody has a neutralization activity (refer to ref. 5).

As this product contains NaN₃, request customized form for neutralization test.

Specificity : Reacts with mouse c-MPL/TPOR.

Reference

: 1. Ivanova A, Wuerfel J, Zhang J, Hoffmann O, Ballmaier M, Dame C. Expression pattern of the thrombopoietin receptor (MpI) in the murine central nervous system. BMC Dev Biol. 2010 Jul 28;10:77.

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proteins in BAF3 cells and primary murine megakaryocytes. J Biol Chem. 2001 Jan 26;276(4):2494-502.

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