

Anti-TPOR Antibody [JE58-00]

HA722068



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, FC
Molecular Wt:	Predicted band size: 71 kDa
Clone number:	JE58-00

Description: 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.

Immunogen: Synthetic peptide within Human TPOR aa 586-635 / 635.

Positive control: Mouse placenta tissue lysate, NIH/3T3 cell lysate, A431 cell lysate, rat spleen tissue lysate, mouse spleen tissue lysate, A431.

Subcellular location: Cell membrane, Golgi apparatus, Cell surface.

Database links: SwissProt: P40238 Human | Q08351 Mouse

Recommended Dilutions:

WB	1:1,000
FC	1:1,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

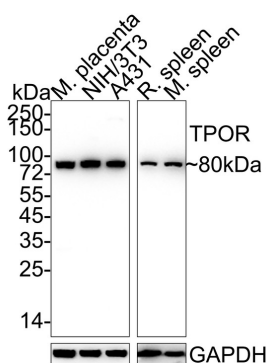
Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of TPOR on different lysates with Rabbit anti-TPOR antibody (HA722068) at 1/1,000 dilution.



Lane 1: Mouse placenta tissue lysate (40 µg/Lane)

Lane 2: NIH/3T3 cell lysate (20 µg/Lane)

Lane 3: A431 cell lysate (no heat) (20 µg/Lane)

Lane 4: Rat spleen tissue lysate (40 µg/Lane)

Lane 5: Mouse spleen tissue lysate (40 µg/Lane)

Notice: no heat means the lysate is not boiled.

Predicted band size: 71 kDa

Observed band size: 80 kDa

Exposure time: Lane 1-3: 24 seconds; Lane 4-5: 30 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722068) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

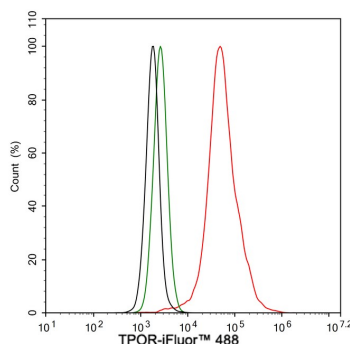


Fig2: Flow cytometric analysis of A431 cells labeling TPOR.

Cells were fixed and permeabilized. Then stained with the primary antibody (HA722068, 1µg/mL) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4°C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4°C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Jiang X et al. Novel chemical-structure TPOR agonist, TMEA, promotes megakaryocytes differentiation and thrombopoiesis via mTOR and ERK signalings. *Phytomedicine*. 2023 Feb
2. Guglielmelli P et al. The MPL mutation. *Int Rev Cell Mol Biol*. 2021

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