bs-11311R **[Primary Antibody]**

TPOR Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4352 **SWISS:** P40238

Target: TPOR

Immunogen: KLH conjugated synthetic peptide derived from human TPOR: 401-500/635.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: In 1990 an oncogene, v-mpl, was identified from the murine myeloproliferative leukemia virus that was capable of immortalizing bone marrow hematopoietic cells from different lineages. In 1992 the human homologue, named, c-mpl, was cloned. Sequence data revealed that c-mpl encoded a protein that was homologous with members of the hematopoietic receptor superfamily. Presence of anti-sense oligodeoxynucleotides of c-mpl inhibited megakaryocyte colony formation. 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. [provided by RefSeq, Jul 2008]

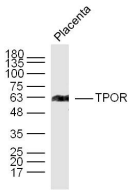
Applications: **WB** (1:500-2000)
Flow-Cyt (3μg/Test)

Reactivity: Human (predicted: Mouse, Rat, Sheep, Dog)

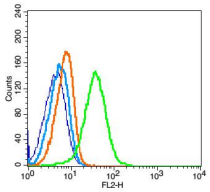
Predicted MW.: 68 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Placenta (Mouse) Lysate at 40 ug
Primary: Anti- TPOR (bs-11311R)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 68 kD
Observed band size: 63 kD



Blank control(Rjai): RAJI(fixed with 2% paraformaldehyde (10 min)). Primary Antibody:Rabbit Anti-TPOR antibody(bs-11311R), Dilution: 1μg in 100 μL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions); Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

SELECTED CITATIONS

- **[IF=6.304]** Shiman Zuo. et al. Establishment of a novel mesenchymal stem cell-based regimen for chronic myeloid

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leukemia differentiation therapy. Cell Death Dis. 2021 Feb;12(2):1-15 FCM ;Human. 33627636

- **[IF=3.549]** Zhang, K. et al. Icaritin Provokes Serum Thrombopoietin and Downregulates Thrombopoietin/MPL of the Bone Marrow in a Mouse Model of Immune Thrombocytopenia. (2018). Mediators of Inflammation,Aug 27;2018:7235639 IHC ;mouse. 30224899

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