

Active Recombinant Mouse Tpo protein, His-tagged

Cat. No. Tpo-4452M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse Tpo protein(P40226)(22~356 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Mouse
Source	E.coli
ProteinLength	22-356 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Thrombopoietin (TPO) is a humoral growth factor that is necessary for megakaryocyte proliferation and maturation, as well as for thrombopoiesis. TPO can promote platelet production, aggregation, ECM adhesion, and activation. It is principally produced in the liver and is bound and internalized by the receptor Tpo R/c-mpl. This protein is the ligand for MLP/C_MPL, the product of myeloproliferative leukemia virus oncogene. Mutations in this gene are the cause of thrombocythemia 1. Besides, GCSF has been identified as an interactor of TPO, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant mouse TPO and recombinant mouse GCSF. Briefly, biotin-linked TPO were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to GCSF-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST 3 times and incubation with Streptavidin-HRP for 30 min, then wells were aspirated and

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washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µstop solution to the wells and read at 450 nm immediately. The binding activity of TPO and GCSF was shown, the EC50 for this effect is 0.68 ug/mL.

Molecular Mass	39.3kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

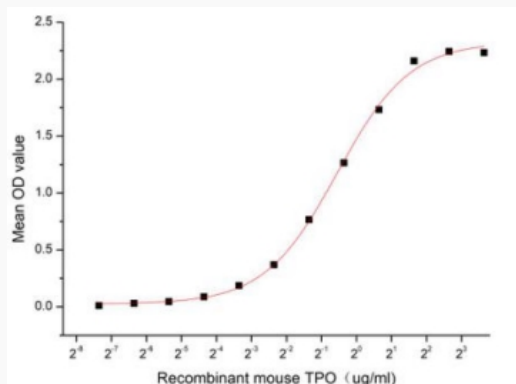
Gene Name	Tpo thyroid peroxidase [Mus musculus]
Official Symbol	Tpo
Synonyms	TPO; thyroid peroxidase;
Gene ID	22018
mRNA Refseq	NM_009417
Protein Refseq	NP_033443

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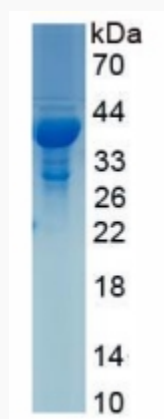
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Activity



SDS-PAGE



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