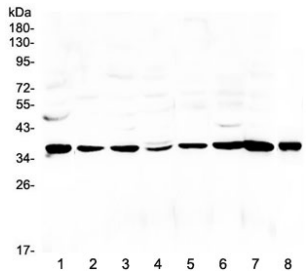
THPO Antibody / Thrombopoietin (RQ4123)

Catalog No.	Formulation	Size
RQ4123	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P40225
Applications	Western Blot: 0.5-1ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This THPO antibody is available for research use only.



Western blot testing of rat 1) liver, 2) spleen, 3) brain, 4) kidney, 5) thymus, 6) PC-12, 7) RH35 and 8) mouse SP20 lysate with THPO antibody at 0.5ug/ml. Predicted molecular weight: 38 kDa, routinely observed at 40-55 kDa (unmodified), 80-95 kDa (glycosylated).

Description

Thrombopoietin (THPO), also known as megakaryocyte growth and development factor (MGDF), is a protein that in humans is encoded by the THPO gene. Megakaryocytopoiesis is the cellular development process that leads to platelet production. The main functional protein encoded by this gene is a humoral growth factor that is necessary for megakaryocyte proliferation and maturation, as well as for thrombopoiesis. 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. Alternative promoter usage and differential splicing result in multiple transcript variants differing in the 5' UTR and/or

coding region. Multiple AUG codons upstream of the main open reading frame (ORF) have been identified, and these upstream AUGs inhibit translation of the main ORF at different extent.

Application Notes

Optimal dilution of the THPO antibody should be determined by the researcher.

Immunogen

A recombinant rat partial protein corresponding to amino acids A27-H259 was used as the immunogen for the THPO antibody.

Storage

After reconstitution, the THPO antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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