

Rabbit Monoclonal Antibody to Mouse Tissue Factor Pathway Inhibitor

Cat. No. CAB11613RM **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Mouse Tissue Factor Pathway Inhibitor
Species	Mouse
Source	Rabbit
Antigen Description	Tissue factor pathway inhibitor (TFPI) is a Kunitz-type serine proteinase inhibitor that down-regulates tissue factor-initiated blood coagulation. TFPI is synthesized by vascular endothelial cells and part of it is associated with glycosaminoglycans of these cells. In plasma TFPI exists as both a free-form (active) and an associated with lipoprotein form (nonactive). TFPI inhibits t Inhibits factor X (X(a)) directly and, in a Xa-dependent way, inhibits VIIa/tissue factor activity, presumably by forming a quaternary Xa/LACI/VIIa/TF complex. TFPI contains 3 BPTI/Kunitz inhibitor domains, The first domain interacts with VIIa and TF, the second one with Xa. Decreasing TFPI activity facilitates an activation of blood coagulation and fibrin forming, and may also be a beneficial therapeutic agent to attenuate pathologic clotting. The mouse TFPI isoform alpha is expressed in heart and spleen while isoform beta is in heart and lung.
Specificity	Mouse TFPI. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.
Immunogen	Recombinant Mouse TFPI Protein

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Isotype	Rabbit IgG
Clone	A121
Applications	Western blot; ELISA
Dilution	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Mouse TFPI in WB. Using a DAB detection system, the detection limit for Mouse TFPI is approximately 0.5 ng/lane under non-reducing conditions. Use of this antibody under reducing conditions is not recommended. Direct ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Mouse TFPI. The detection limit for Mouse TFPI is approximately 0.00245 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Mouse TFPI
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	Tfpi tissue factor pathway inhibitor [<i>Mus musculus</i>]
Official Symbol	Tfpi

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Synonyms	TFPI; tissue factor pathway inhibitor; extrinsic pathway inhibitor; lipoprotein-associated coagulation inhibitor; EPI; LACI; AW552122; A630013F22Rik;
Gene ID	21788
mRNA Refseq	NM_001177319
Protein Refseq	NP_001170790
Pathway	Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Extrinsic Pathway, organism-specific biosystem; Formation of Fibrin Clot (Clotting Cascade), organism-specific biosystem; Hemostasis, organism-specific biosystem;
Function	peptidase inhibitor activity; serine-type endopeptidase inhibitor activity;

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