

Rabbit Anti-Mouse Coagulation Factor III / Tissue Factor / CD142 Monoclonal Antibody

Cat. No. CAB11537RM Lot. No. (See product label)

SPECIFICATION

Product Overview

Rabbit Monoclonal Antibody to Mouse Coagulation Factor III / Tissue Factor / CD142 / F3 Protein

Species

Mouse

Source

Rabbit

Antigen Description

Tissue factor, also known as coagulation factor III, F3, and CD142, is a single-pass type I membrane protein which belongs to the tissue factor family. Tissue factor is one of the proteins that participate in hemostatic and inflammatory processes. Activated monocytes present in the liver increase expression of tissue factor, and while accumulating in the organ they can intensify inflammation. Tissue factor is the protein that activates the blood clotting system by binding to, and activating, the plasma serine protease, factor VIIa, following vascular injury. Because of its essential role in hemostasis, Tissue factor plays a role in pathology associated with hemostasis, triggering the coagulation system in many thrombotic diseases and the coagulopathies associated with sepsis and other forms of disseminated intravascular coagulation. Tissue factor is not only the main physiological initiator of normal blood coagulation, but is also important in the natural history of solid malignancies in that it potentiates metastasis and angiogenesis and mediates outside-in signalling. Tissue factor is expressed constitutively by many tissues which are not in contact with blood and by other cells upon injury or activation; the latter include endothelial cells, tissue macrophages, and peripheral blood monocytes.

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Specificity	Mouse Coagulation Factor III / Tissue Factor / CD142 / F3. No cross-reactivity with human cell lysate (293 cell line) in WB and ELIS
Immunogen	Recombinant Mouse Coagulation Factor III / Tissue Factor / CD142 / F3 Protein
Isotype	Rabbit IgG
Clone	A035
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Mouse F3 in WB.Using a DAB detection system, the detection limit for Mouse F3 is approximately 0.5 ng/lane under non-reducing conditions and 2 ng/lane under reducing conditions.ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Mouse F3. The detection limit for Mouse F3 is approximately 0.00245 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Mouse Coagulation Factor III / Tissue Factor / CD142 / F3
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

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Gene Name	F3 coagulation factor III [Mus musculus]
Official Symbol	F3
Synonyms	F3; coagulation factor III; tissue factor; TF; Cf3; Cf-3; CD142; AA409063;
Gene ID	14066
mRNA Refseq	NM_010171
Protein Refseq	NP_034301
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	cell surface binding; phospholipid binding; protease binding;