Recombinant Rabbit F3 Protein, His-tagged

Cat. No. F3-368R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rabbit F3 (NP_001075760.1) (Ala33-Met250) was expressed with a polyhistidine tag at the C-terminus.
Species	Rabbit
Source	Yeast
ProteinLength	Ala33-Met250
Description	Tissue factor (TF), 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 pr centigradeesses. Activated mon centigradeytes 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. 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 mon centigradeytes. Coagulation Factor III is a transmembrane glycoprotein that l centigradealizes the coagulation serine protease factor VII/VIIa (FVII/VIIa) to the cell surface. The primary function of TF is to activate

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	the clotting cascade. The TF:FVIIa complex also activates cells by cleavage of a G-protein coupled receptor called protease-activated receptor 2 (PAR2). TF is expressed by tumor cells and contributes to a variety of pathologic pr centigradeesses, such as thrombosis, metastasis, tumor growth, and tumor angiogenesis. As a key regulator of haemostasis and angiogenesis, it is also involved in the pathology of several diseases, including cardiovascular, inflammatory and neoplastic conditions.
Predicted N Terminal	Ala 33
Form	Lyophilized from sterile 50 mM Tris, 50 % Glycerol, pH 8.0. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant rabbit F3 consists of 228 amino acids and predicts a molecular mass of 26.3 kDa.
Endotoxin	< 1.0 EU per μg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Storage	Samples are stable for up to twelve months from date of receipt at-70 centigrade. Store it under sterile conditions at-20 centigrade to-80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.

GENE INFORMATION

Gene Name	F3 coagulation factor III (thromboplastin, tissue factor) [Oryctolagus cuniculus]

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Official Symbol	F3
Synonyms	F3; coagulation factor III (thromboplastin, tissue factor); tissue factor; TF; brain tissue factor;
Gene ID	100009127
mRNA Refseq	NM_001082291
Protein Refseq	NP_001075760

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