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Tissue factor Rabbit pAb

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Catalog # AP52127

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P13726
Reactivity	Human, Mouse, Rat
Predicted	Dog, Pig, Horse, Rabbit, Guinea Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33068
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Tissue factor
Epitope Specificity	32-100/295
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Isoform 1: Membrane; Single-pass type I membrane protein. Isoform 2: Secreted.
SIMILARITY	Belongs to the tissue factor family.
SUBUNIT	Interacts with HSPE; the interaction, inhibited by heparin, promotes the generation of activated factor X and activates coagulation in the presence of activated factor VII.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes coagulation factor III which is a cell surface glycoprotein. This factor enables cells to initiate the blood coagulation cascades, and it functions as the high-affinity receptor for the coagulation factor VII. The resulting complex provides a catalytic event that is responsible for initiation of the coagulation protease cascades by specific limited proteolysis. Unlike the other cofactors of these protease cascades, which circulate as nonfunctional precursors, this factor is a potent initiator that is fully functional when expressed on cell surfaces. There are 3 distinct domains of this factor: extracellular, transmembrane, and cytoplasmic. This protein is the only one in the coagulation pathway for which a congenital deficiency has not been described. Alternate splicing results in multiple transcript variants.[provided by RefSeq, May 2010]

Additional Information

Gene ID	2152
Other Names	Tissue factor, TF, Coagulation factor III, Thromboplastin, CD142, F3
Target/Specificity	Lung, placenta and pancreas.

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	F3
Function	Initiates blood coagulation by forming a complex with circulating factor VII or VIIa. The [TF:VIIa] complex activates factors IX or X by specific limited proteolysis. TF plays a role in normal hemostasis by initiating the cell-surface assembly and propagation of the coagulation protease cascade.
Cellular Location	[Isoform 1]: Membrane; Single-pass type I membrane protein
Tissue Location	Lung, placenta and pancreas.

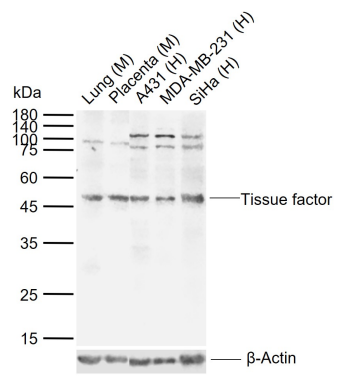
Background

This gene encodes coagulation factor III which is a cell surface glycoprotein. This factor enables cells to initiate the blood coagulation cascades, and it functions as the high-affinity receptor for the coagulation factor VII. The resulting complex provides a catalytic event that is responsible for initiation of the coagulation protease cascades by specific limited proteolysis. Unlike the other cofactors of these protease cascades, which circulate as nonfunctional precursors, this factor is a potent initiator that is fully functional when expressed on cell surfaces. There are 3 distinct domains of this factor: extracellular, transmembrane, and cytoplasmic. This protein is the only one in the coagulation pathway for which a congenital deficiency has not been described. Alternate splicing results in multiple transcript variants.[provided by RefSeq, May 2010]

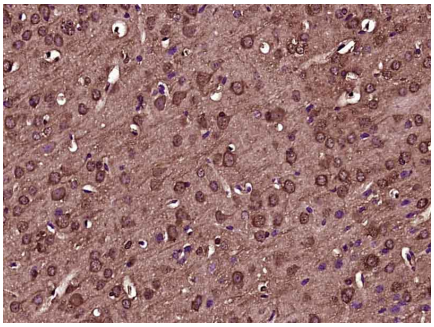
References

Scarpati E.M.,et al.Biochemistry 26:5234-5238(1987).
Morrissey J.H.,et al.Cell 50:129-135(1987).
Spicer E.K.,et al.Proc. Natl. Acad. Sci. U.S.A. 84:5148-5152(1987).
Fisher K.L.,et al.Thromb. Res. 48:89-99(1987).
Mackman N.,et al.Biochemistry 28:1755-1762(1989).

Images



Sample:
Lane 1: Mouse Lung tissue lysates
Lane 2: Mouse Placenta tissue lysates
Lane 3: Human A431 cell lysates
Lane 4: Human MDA-MB-231 cell lysates
Lane 5: Human SiHa cell lysates
Primary: Anti-Tissue factor (AP52127) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 29 kDa
Observed band size: 50 kDa



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Tissue factor) Polyclonal Antibody, Unconjugated (AP52127) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.