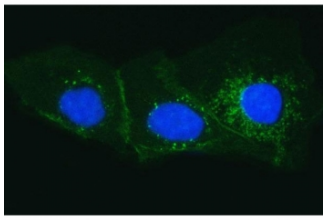
Tissue Factor Antibody / TF / CD142 (R31962)

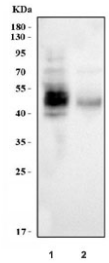
Catalog No.	Formulation	Size
R31962	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

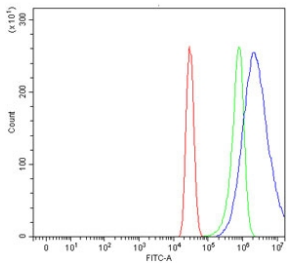
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.005% sodium azide
UniProt	P13726
Applications	Western blot: 0.5-1ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells Immunohistochemistry (FFPE): 2-5ug/ml
Limitations	This Tissue Factor antibody is available for research use only.



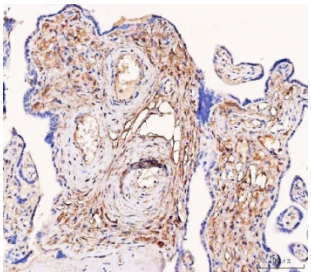
Immunofluorescent staining of FFPE human A431 cells with Tissue Factor antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) A431 and 2) HaCaT cell lysate with Tissue Factor antibody. Expected molecular weight: 33-50 kDa depending on glycosylation level.



Flow cytometry testing of human A431 cells with Tissue Factor antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Tissue Factor antibody.



IHC staining of FFPE human placental tissue with Tissue Factor antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

Tissue factor also called platelet tissue factor, factor III, or CD142. The F3 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.

Additional studies involving coagulation signaling, inflammatory tumor microenvironments, and procoagulant pathway activation may benefit from our Tissue Factor antibody page featuring clone CD142/9195 for cancer and vascular biology research.

Application Notes

Optimal dilution of the Tissue Factor antibody should be determined by the researcher.

Immunogen

Amino acids 33-295 of human TF/Factor III were used as the immunogen for the Tissue Factor antibody.

Storage

After reconstitution, the Tissue Factor 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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