abcam

ab275690

FITC Anti-Tissue Factor antibody [05]

Anti-Tissue Factor antibody [05] conjugated to FITC - suitable for flow cytometry, and reacts with human samples. Clone [5] is a mouse monoclonal antibody.

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Key facts

Isotype	IgG2a
Host species	Mouse
Conjugation	FITC
Excitation/Emission	Ex: 495nm, Em: 519nm
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 0.5% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Fragment Protein within Human F3 aa 1 to C-terminus. The exact immunogen used to generate this antibody is proprietary information. Database link P13726
Clone number	05
Purification technique	Affinity purification Protein A
Concentration	0.1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	1 µl/Test

Target data

See full target information 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.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze, Store in the dark

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Tissue Factor also known as coagulation factor III or CD142 is an important player in the blood coagulation process. This protein with a molecular mass of approximately 47 kDa is a transmembrane glycoprotein. It is expressed widely in various tissues including the lungs heart and brain and plays an important role in initiating the coagulation cascade when exposed to blood. In endothelial cells tissue factor is generally not present unless these cells are in a state of disturbance supporting its role as a primary defense mechanism against vascular injury.
Biological function summary	Tissue factor acts as a cofactor for factor VIIa forming a complex that rapidly catalyzes the activation of factor X to factor Xa. This catalytic action ultimately leads to fibrin formation which is essential for clotting. Tissue Factor (TF) is part of the extrinsic pathway of the coagulation cascade and is fundamental in the generation of a hemostatic response to tissue injury. By regulating thrombin generation through its interaction with other coagulation factors tissue factor plays an important role in maintaining hemostatic balance.

Pathways	Tissue factor is integral in the extrinsic pathway of coagulation which works closely with the intrinsic pathway to ensure effective hemostasis. It complexes with factor VIIa and triggers downstream effects involving proteins like factor X and thrombin. Tissue factor forms a bridge between cellular injury responses and the blood coagulation system linking these two significant physiological processes. The interaction with these proteins highlights its central role in hemostatic pathways and highlights its significance in the coagulation network.
Associated diseases and disorders	Tissue factor is associated with conditions like thrombosis and cardiovascular diseases where its expression can become dysregulated. Abnormal activation of tissue factor contributes directly to the pathological clot formation seen in thrombosis. It is also implicated in cancer-related coagulopathy where it can facilitate tumor-associated thrombosis by interacting with cancer cell surfaces. Additionally in such diseases the interplay between tissue factor and thrombin becomes important as it affects disease progression and the severity of clot-related complications.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

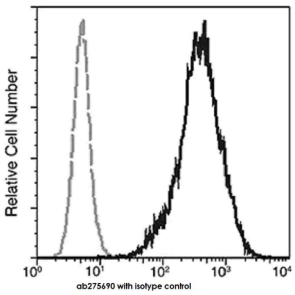
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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Terms & Conditions.

1 product image



Flow Cytometry - FITC Anti-Tissue Factor antibody [05] (ab275690)

Tissue Factor Flow Cytometry staining using mouse Anti-Tissue Factor antibody

Flow cytometric analysis of Tissue Factor expression on A431 (Human epidermoid carcinoma cell line) cells.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.