

A1378

Leader in Biomolecular Solutions for Life Science



Coagulation factor III/Tissue Factor Rabbit pAb

Catalog No.: A1378

Basic Information

Observed MW

53kDa/45kDa

Calculated MW

33kDa

Category

Polyclonal Antibody

Applications

WB, IF/ICC, ELISA

Cross-Reactivity

Human, Mouse, Rat

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, for example, on monocytes. There are 3 distinct domains of this factor: extracellular, transmembrane, and cytoplasmic. Platelets and monocytes have been shown to express this coagulation factor under procoagulatory and proinflammatory stimuli, and a major role in HIV-associated coagulopathy has been described. Platelet-dependent monocyte expression of coagulation factor III has been described to be associated with Coronavirus Disease 2019 (COVID-19) severity and mortality. 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.

Recommended Dilutions

| | |
|--------|---------------|
| WB | 1:100 - 1:500 |
| IF/ICC | 1:50 - 1:200 |

Immunogen Information

Gene ID

2152

Swiss Prot

P13726

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 120-251 of human Coagulation factor III/Tissue Factor (NP_001984.1).

Synonyms

TF; TFA; CD142; Coagulation factor III/Tissue Factor

Contact



www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

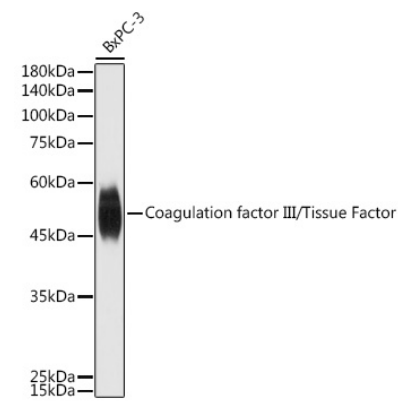
Affinity purification

Storage

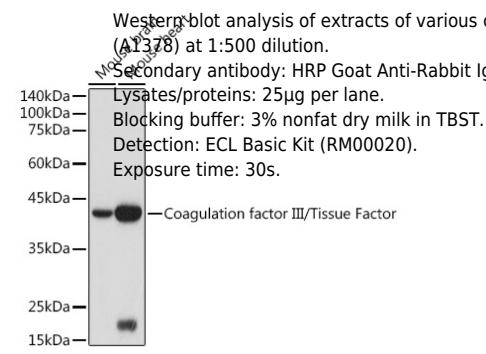
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

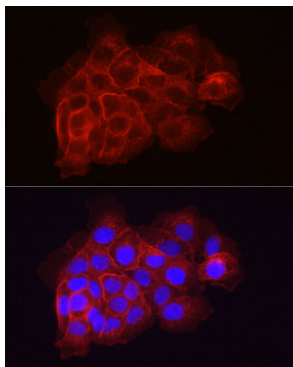
Validation Data



Western blot analysis of extracts of BxPC-3 cells, using Coagulation factor III/Tissue Factor antibody (A1378) at 1:500 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



Western blot analysis of extracts of various cell lines, using Coagulation factor III/Tissue Factor antibody (A1378) at 1:500 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



Immunofluorescence analysis of A431 cells using Coagulation factor III/Tissue Factor Rabbit pAb (A1378) at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.