

A22492

Leader in Biomolecular Solutions for Life Science



ABflo® 488 Rabbit anti-Human CD142 mAb

Catalog No.: A22492

Basic Information

Observed MW

Calculated MW

33kDa

Category

SMab Recombinant Monoclonal Antibody

Applications

IF/ICC,FC

Cross-Reactivity

Human

CloneNo number

ARC55325-ABf488

Conjugate

ABflo® 488. Ex:491nm. Em:516nm.

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

IF/ICC 1:50 - 1:200

FC 5 µl per 10⁶ cells in
100 µl volume

Immunogen Information

Gene ID

2152

Swiss Prot

P13726

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 34-251 of human CD142 (NP_001984.1).

Synonyms

TF; TFA; CD142

Contact



www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

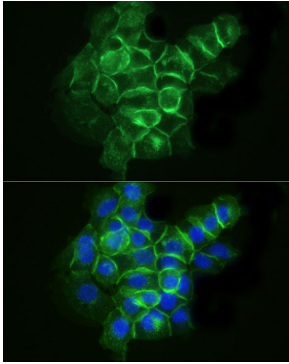
Affinity purification

Storage

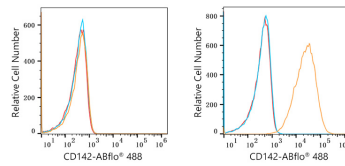
Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.03% proclin300,0.2% BSA,pH7.3.

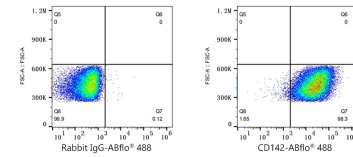
Validation Data



Immunofluorescence analysis of A-431 using ABflo® 488 Rabbit anti-Human CD142 mAb (A22492) at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.



Flow cytometry: 1×10^6 HEL cells (negative control, left) and A-431 cells (right) were surface-stained with ABflo® 488 Rabbit anti-Human CD142 mAb (A22492, 2 $\mu\text{g}/\text{mL}$, orange line) or ABflo® 488 Rabbit IgG isotype control (A22069, 2 $\mu\text{g}/\text{mL}$, blue line). Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1×10^6 A-431 cells were surface-stained with ABflo® 488 Rabbit IgG isotype control (A22069, 5 $\mu\text{l}/\text{Test}$, left) or ABflo® 488 Rabbit anti-Human CD142 mAb (A22492, 5 $\mu\text{l}/\text{Test}$, right).