

PRODUCT INFORMATION

Clone ID **DMC463** CD142 **Target**

Synonyms TF; Coagulation factor III; F3

Host Species Rabbit

Anti-CD142 antibody(DMC463); IgG1 Chimeric Description

mAb **Delivery** In Stock **Uniprot ID** P13726

Rabbit/Human Fc chimeric IgG1 IgG type

Clonality Monoclonal Reactivity Human **Applications** Flow Cyt

Recommended

Storage & Shipping

Background

Flow Cyt 1:100 **Dilutions**

Purified from cell culture supernatant by affinity **Purification**

chromatography

Lyophilized from sterile PBS, pH 7.4. Normally 5 % Formulation & - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis Reconstitution

for specific instructions of reconstitution. Store at -20°C to -80°C for 12 months in

lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

témperature.

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 proteograms. Office the other 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

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.[provided by RefSeq;

Aug 2020]

Usage Research use only

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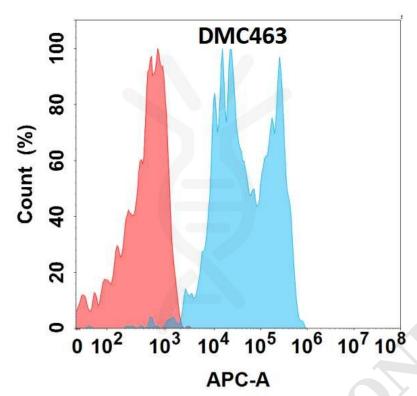


Figure 1. Flow cytometry analysis with Anti-CD142 (DMC463) on Expi293 cells transfected with human CD142 (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).

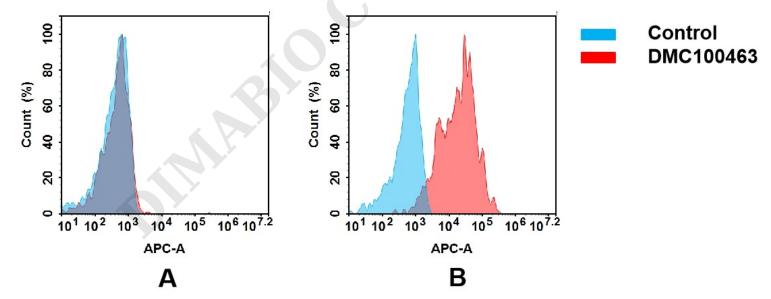
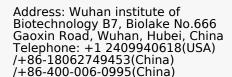


Figure 2. Flow cytometry analysis of antigen binding of anti-human CD142 mAb(DMC100463). (A) DMC100463 does not bind to CHO-S cells that do not express CD142. (B) A clear peak shift of DMC100463 was seen compared to the control when incubated with CD142-expressing Hela cells, indicating strong binding of DMC100463 to CD142. Antibodies were incubated at 5 μ g/mL.



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