

Datasheet for ABIN7490931

Tissue factor Protein (AA 33-251) (Fc Tag)**2** Images[Go to Product page](#)

Overview

| | |
|-------------------------------|---|
| Quantity: | 100 µg |
| Target: | Tissue factor (F3) |
| Protein Characteristics: | AA 33-251 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This Tissue factor protein is labelled with Fc Tag. |

Product Details

| | |
|------------------|---|
| Purpose: | Recombinant human CD142 protein with C-terminal human Fc tag |
| Specificity: | CD142 (Ser33-Glu251) hFc (Glu99-Ala330) |
| Characteristics: | Extracellular Domain Protein |
| Purification: | Purified from cell culture supernatant by affinity chromatography |
| Purity: | The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining. |

Target Details

| | |
|-------------------|--|
| Target: | Tissue factor (F3) |
| Alternative Name: | CD142 (F3 Products) |
| Background: | This gene encodes coagulation factor III which is a cell surface glycoprotein. This factor |

Target Details

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.[provided by RefSeq, Aug 2020]

Molecular Weight: predicted molecular mass of 50.9 kDa after removal of the signal peptide. The apparent molecular mass of CD142-hFc is 55-70kDa due to glycosylation.

UniProt: [P13726](#)

Pathways: [Positive Regulation of Endopeptidase Activity, Smooth Muscle Cell Migration, Platelet-derived growth Factor Receptor Signaling](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.

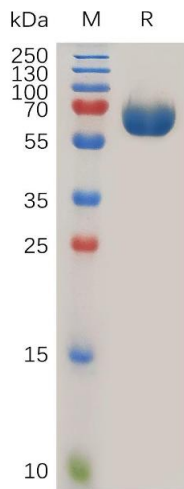
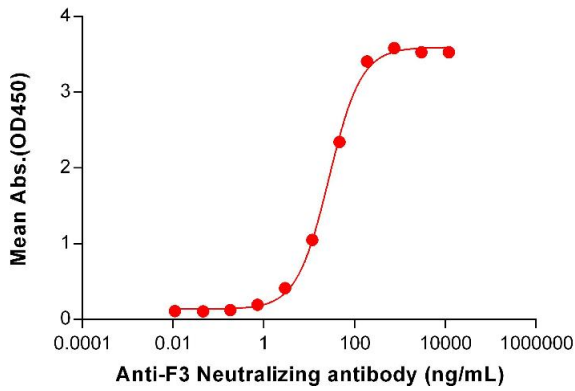
Storage: -20 °C,-80 °C

Storage Comment: 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 temperature.

Expiry Date: 12 months

Human CD142, hFc Tagged protein ELISA

0.2 µg of Human CD142, hFc tagged protein per well



ELISA

Image 1. ELISA plate pre-coated by 2 µg/mL (100 µL/well) Human CD142 Protein, hFc Tag (ABIN7455480, ABIN7490929 and ABIN7490931) can bind Anti-F3 Neutralizing antibody ABIN7478017 and ABIN7490971 in a linear range of 2.93-187.50 ng/mL.

SDS-PAGE

Image 2. Human CD142 Protein, hFc Tag on SDS-PAGE under reducing condition.