

Product Information

MemDX™ Membrane Protein Human F3 (Coagulation factor III, tissue factor) for Antibody

Discovery

Cat. No.: **MP0347X**

This product is for research use only and is not intended for diagnostic use.

This product is a 33.1 kDa Human F3 membrane protein expressed in *in vitro* wheat germ expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

F3

Protein Length

Full-length

Molecular Weight

33.1 kDa

TMD

1

Sequence

METPAWPRVPRPETAVARTLLLGWVFAQVAGASGTTNTVAAYNLTKWSTNFKTILEWEPKPVNQVYTVQISTKSGDWKSKCFYTT

Product Description

Application

Antibody Production

Expression Systems

in vitro wheat germ expression system

Tag

NO

Protein Format

Liposome

Form

Liquid

Purification

None

Buffer

25 mM Tris-HCl of pH8.0 containing 2% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

F3

Full Name

Coagulation factor III, tissue factor

Introduction

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

Alternative Names

CD142; TF; TFA; OTTHUMP00000012426; coagulation factor III; tissue factor

Gene ID

[2152](#)

UniProt ID

[P13726](#)