TECHNICAL DATA SHEET

F3 MAb

Catalog Number: CSB0010

DESCRIPTION

Target:	F3
Target aliases:	Coagulation Factor III, TF, CD142
Fc isotype:	Mouse IgG2a
Membrane proteome specificity:	Monospecific for 6,000 membrane proteins tested
Species reactivity:	Human (others untested)
Epitope:	
Fc modifications:	C-terminal Avitag[1], disabled Fc-γ receptor binding[2]
Source:	Recombinant CHO expression; purified by Protein A chromatography
Formulation:	Endotoxin Free PBS pH 7.4, sterile-filtered
Concentration:	1 mg/ml

1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc-γ receptor binding site to minimize non-specific antibody binding to endogenously-expressed Fc-γ receptors on target cells.

F3 TARGET INFORMATION

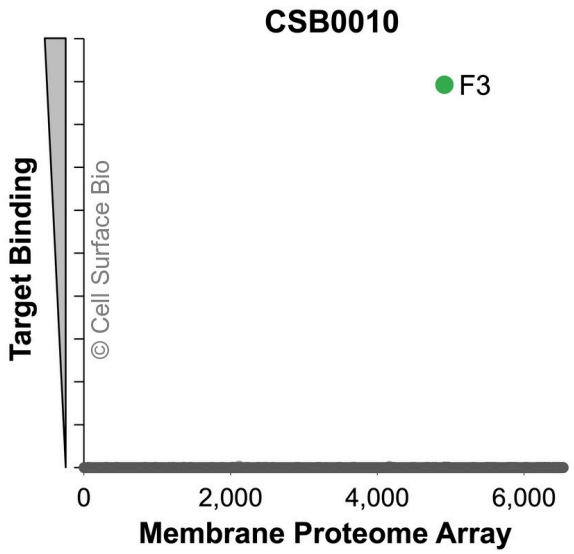
F3 is a cell surface glycoprotein with extracellular, transmembrane, and cytoplasmic domains that binds coagulation factor VII, initiating the coagulation protease cascade. F3 is involved with HIV-associated coagulopathy, and platelet-dependent monocyte expression of this gene is associated with COVID-19 severity and mortality. (NCBI Gene: 2152, UniProtKB/Swiss-Prot: P13726). Other names: Coagulation Factor III, TF, CD142

SHIPPING AND STORAGE

Shipping:	Shipped at ambient temperature. Store at 4°C.
Stability & Storage:	Stable for 12 months from date of receipt when stored at 4°C. Avoid repeated freeze-thaw cycles.

VALIDATION DATA

Membrane Proteome Specificity



The specificity of F3 Monoclonal Antibody (CSB0010) was tested on the Membrane Proteome Array™ and shown to be specific for human F3.

The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed human cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies and other protein ligands.

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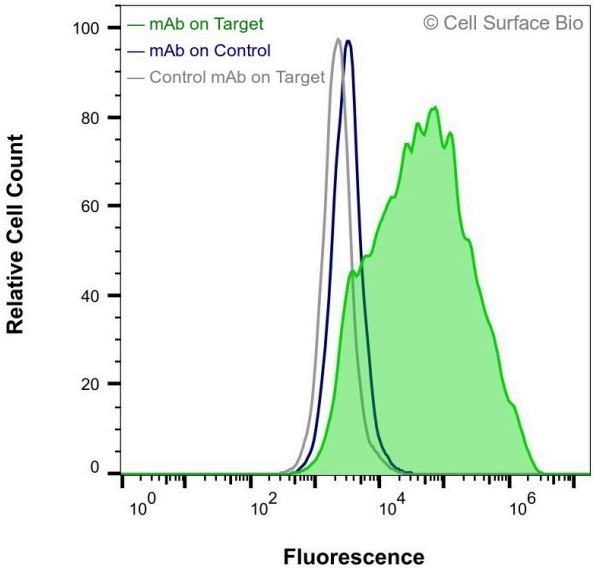
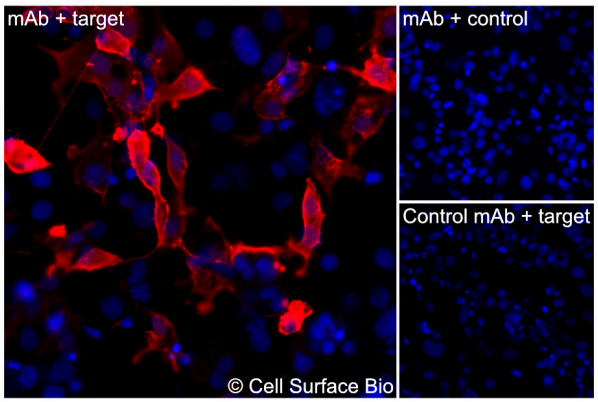
Applications	Conditions	Recommended concentration
Flow Cytometry, Extracellular	Live, Unpermeabilized	1 µg/ml



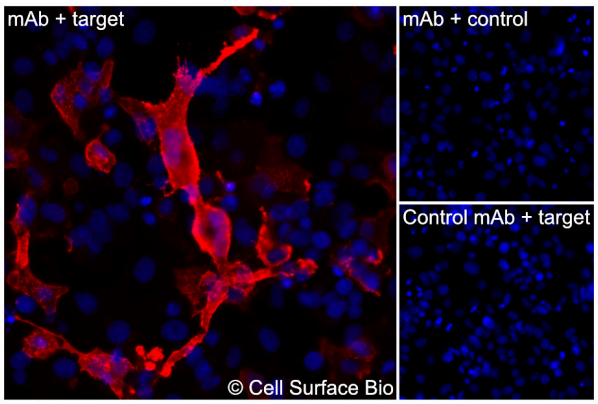
HEK-293F cells transiently transfected with human F3 were stained with F3 Monoclonal Antibody (CSB0010) (green) or isotype control antibody (gray), followed by AlexaFluor 647-conjugated anti-mouse IgG secondary antibody. HEK-293F cells transiently transfected with an empty control vector were also stained with F3 Monoclonal Antibody (CSB0010) (blue).

Applications	Conditions	Recommended concentration
Immunofluorescence, Extracellular	Fixed 4% paraformaldehyde	1 µg/ml



(A) COS-7 cells transiently transfected with human F3 were stained with F3 Monoclonal Antibody (CSB0010) followed by AlexaFluor 647 anti-mouse IgG secondary antibody (red) and DAPI (blue). (B) COS-7 cells transiently transfected with an empty control vector stained with F3 Monoclonal Antibody. (C) Isotype control: COS-7 cells transfected with human F3 and stained with control MAb.

Applications	Conditions	Recommended concentration
Immunofluorescence, Intracellular	Fixed 4% paraformaldehyde, Permeabilized 0.1% Triton X-100	1 µg/ml



(A) COS-7 cells transiently transfected with human F3 were permeabilized and stained with F3 Monoclonal Antibody (CSB0010) followed by AlexaFluor 647 anti-mouse IgG secondary antibody (red) and DAPI (blue). (B) COS-7 cells transiently transfected with an empty control vector stained with F3 Monoclonal Antibody. (C) Isotype control: COS-7 cells transfected with human F3 and stained with control MAb.