CD142 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD142, Monoclonal Antibody
Full Product Name	CD142 (CD142 Antigen, Coagulation Factor III, F3, Tissue Factor, TF, TFA, Thromboplastin) APC
Product Gene Name	anti-CD142 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	4G4
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human F3.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, cen original vial prior to removing the cap.
Molecular Weight	27,145 Da
Immunogen	Partial recombinant corresponding to aa45-154 from human F3 (AAH11029) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	TWKSTNFKTILEWEPKPVNQVYTVQISTKSGDWKSKCFYTTDTECDLTDEIVKDVKQTYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLGQPTI
Conjugate	APC
Product Categories/Family for anti-CD142 antibody	Antibodies; Coagulation Factors
Applications Tested/Suitable for anti-CD142 antibody	ELISA (EIA), Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-CD142 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CD142 antibody	CD142, a 45kD cell surface glycoprotein which is also known as Tissue Factor. CD142 expression can be induced on monocytes, macrophages and en cells by various stimuli including interleukin 1, tumor necrosis factor and endotoxin. CD142 initiates the blood clotting cascade by binding coagulation F which activates Factor IX or Factor X by specific limited proteolysis. CD142 also plays an important role in inflammation, angiogenesis, and the pathoph atherosclerosis and cancer.
Other Notes	Small volumes of anti-CD142 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional may apply.

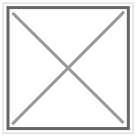
Searchable Terms for CD142 purchase	MBS6135728 is an antibody targeting CD142. Also known as CD142 (CD142 Antigen, Coagulation Factor III, F3, Tissue Factor, TF, TFA, Thromboplas Reactive in Human. Host: Mouse.



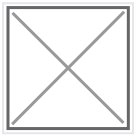
Western Blot (WB) of anti-CD142 antibody
Western Blot detection against Immunogen (37.84kD).



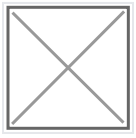
Western Blot (WB) of anti-CD142 antibody
Western Blot analysis of F3 expression in transfected 293T cell line by F3 monoclonal antibody. Lane 1: F3 transfected lysate (33.1kD). Lane 2: Non-transfected lysate.



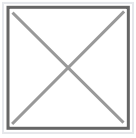
Immunoprecipitation (IP) of anti-CD142 antibody
Immunoprecipitation of F3 transfected lysate using F3 monoclonal antibody and Protein A Magnetic Bead and immunoblotted with F3 rabbit polyclonal antibody.



Testing Data of anti-CD142 antibody
Detection limit for recombinant GST tagged F3 is ~0.03ng/ml as a capture antibody.



Testing Data of anti-CD142 antibody
Proximity Ligation Analysis (PLA) of protein-protein interactions between F7 and F3. HeLa cells were stained with F7 rabbit purified polyclonal 1:1200 and F3 mouse monoclonal antibody 1:50. Signals were detected by 30 Detection Kit 613 (red), and nuclei were counterstained with DAPI (blue). Each red dot represents the detection of protein-protein interaction complex



Western Blot (WB) of anti-CD142 antibody
F3 monoclonal antibody, Western Blot analysis of F3 expression in A-431.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD142. It may not necessarily be applicable to this product.

NCBI GI #	15029642
NCBI GeneID	2152
NCBI Accession #	BC011029
NCBI Related Accession #	AAH11029
UniProt Secondary Accession #	Q6FHG2; Q86WH4; D3DT47
UniProt Related Accession #	P13726
NCBI Official Full Name	Homo sapiens coagulation factor III (thromboplastin, tissue factor), mRNA
NCBI Official Synonym Full Names	coagulation factor III, tissue factor
NCBI Official Symbol	F3
NCBI Official Synonym Symbols	TF; TFA; CD142
Protein Family	Tissue factor
NCBI Protein Information	tissue factor

NCBI Summary for CD142	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. There are 3 distinct domains of this factor: extracellular, transmembrane, and cytoplasmic. 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, May 2010]
Research Articles on CD142	**1.** uPAR and TF could potentially be attractive targets for molecular imaging and therapy in oral squamous cell carcinoma due to high positive expression rates and tumor-specific expression patterns.
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