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F3 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant F3.
Catalog # AT1979a

Product Information

Application	WB, IP, E
Primary Accession	P13726
Other Accession	BC011029
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	4G4
Calculated MW	33068

Additional Information

Gene ID	2152
Other Names	Tissue factor, TF, Coagulation factor III, Thromboplastin, CD142, F3
Target/Specificity	F3 (AAH11029, 45 a.a. ~ 154 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IP~~N/A E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	F3 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

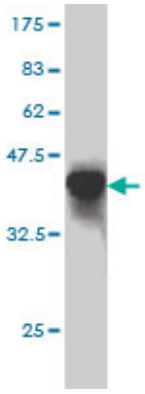
Background

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.

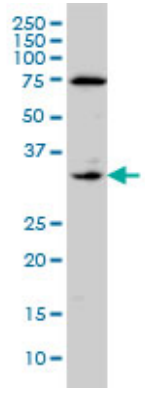
References

No evidence for tissue factor on platelets. Bouchard BA, et al. Blood, 2010 Aug 5. PMID 20688968.A genetic association study of maternal and fetal candidate genes that predispose to preterm prelabor rupture of membranes (PROM). Romero R, et al. Am J Obstet Gynecol, 2010 Jul 29. PMID 20673868.Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Identification of fetal and maternal single nucleotide polymorphisms in candidate genes that predispose to spontaneous preterm labor with intact membranes. Romero R, et al. Am J Obstet Gynecol, 2010 May. PMID 20452482.Predictive value of tissue factor bearing microparticles in cancer associated thrombosis. Zwicker JI. Thromb Res, 2010 Apr. PMID 20434015.

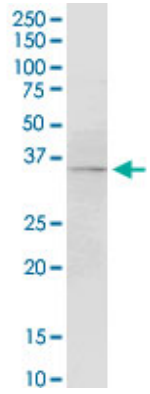
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .



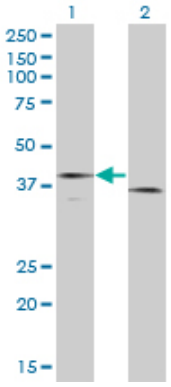
F3 monoclonal antibody (M01), clone 4G4 Western Blot analysis of F3 expression in A-431 ((Cat # AT1979a)

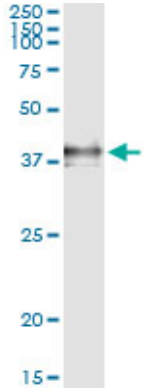


F3 monoclonal antibody (M01), clone 4G4. Western Blot analysis of F3 expression in Jurkat.

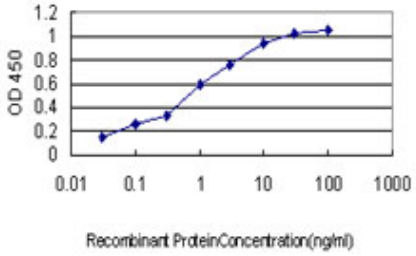
Western Blot analysis of F3 expression in transfected 293T cell line by F3 monoclonal antibody (M01), clone 4G4.

Lane 1: F3 transfected lysate(33.1 KDa).
Lane 2: Non-transfected lysate.

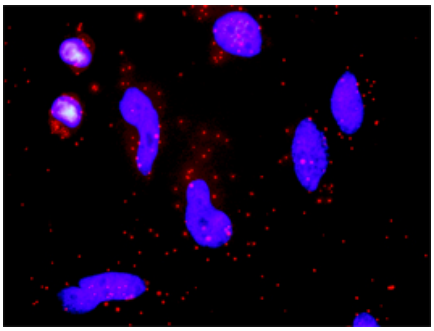




Immunoprecipitation of F3 transfected lysate using anti-F3 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with F3 MaxPab rabbit polyclonal antibody.



Detection limit for recombinant GST tagged F3 is approximately 0.03ng/ml as a capture antibody.



Proximity Ligation Analysis of protein-protein interactions between F7 and F3. HeLa cells were stained with anti-F7 rabbit purified polyclonal 1:1200 and anti-F3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.