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F8 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant F8.
Catalog # AT1980a

Product Information

Application	E
Primary Accession	P00451
Other Accession	NM_000132
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	1E9
Calculated MW	267009

Additional Information

Gene ID	2157
Other Names	Coagulation factor VIII, Antihemophilic factor, AHF, Procoagulant component, Factor VIIIa heavy chain, 200 kDa isoform, Factor VIIIa heavy chain, 92 kDa isoform, Factor VIII B chain, Factor VIIIa light chain, F8, F8C
Target/Specificity	F8 (NP_000123, 213 a.a. ~ 312 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	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	F8 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

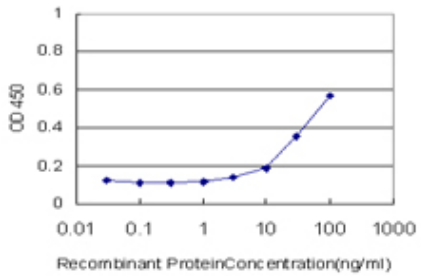
Background

This gene encodes coagulation factor VIII, which participates in the intrinsic pathway of blood coagulation; factor VIII is a cofactor for factor IXa which, in the presence of Ca+2 and phospholipids, converts factor X to the activated form Xa. This gene produces two alternatively spliced transcripts. Transcript variant 1 encodes a large glycoprotein, isoform a, which circulates in plasma and associates with von Willebrand factor in a noncovalent complex. This protein undergoes multiple cleavage events. Transcript variant 2 encodes a putative small protein, isoform b, which consists primarily of the phospholipid binding domain of factor VIIIc. This binding domain is essential for coagulant activity. Defects in this gene results in hemophilia A, a common recessive X-linked coagulation disorder.

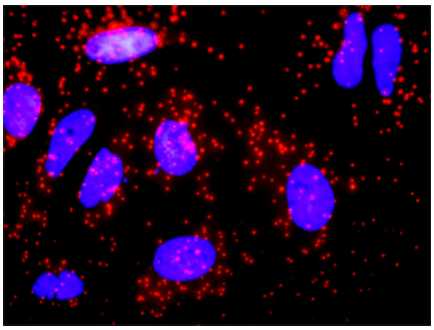
References

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.Factor XIII A subunit Val34Leu polymorphism in patients suffering atherothrombotic ischemic stroke. Shemirani AH, et al. Thromb Res, 2010 Aug. PMID 20609463.Synergism between factor XII -4C>T and factor XIII Val34Leu polymorphisms in fibrinolytic therapy in acute myocardial infarction. Hern?ndez-Romero D, et al. Thromb Haemost, 2010 Sep. PMID 20589311.Activation of human endothelial cells from specific vascular beds induces the release of a FVIII storage pool. Shahani T, et al. Blood, 2010 Jun 10. PMID 20351306.New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. Genes Immun, 2010 Apr. PMID 20237496.

Images



Detection limit for recombinant GST tagged F8 is approximately 3ng/ml as a capture antibody.



Proximity Ligation Analysis of protein-protein interactions between CALR and F8. HeLa cells were stained with anti-CALR rabbit purified polyclonal 1:1200 and anti-F8 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).