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F9 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant F9.
Catalog # AT1981a

Product Information

Application	WB, IP, E
Primary Accession	P00740
Other Accession	NM_000133
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	2C9
Calculated MW	51778

Additional Information

Gene ID	2158
Other Names	Coagulation factor IX, Christmas factor, Plasma thromboplastin component, PTC, Coagulation factor IXa light chain, Coagulation factor IXa heavy chain, F9
Target/Specificity	F9 (NP_000124, 96 a.a. ~ 190 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	F9 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

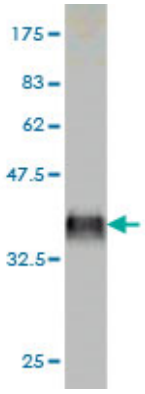
Background

This gene encodes vitamin K-dependent coagulation factor IX that circulates in the blood as an inactive zymogen. This factor is converted to an active form by factor XIa, which excises the activation peptide and thus generates a heavy chain and a light chain held together by one or more disulfide bonds. The role of this activated factor IX in the blood coagulation cascade is to activate factor X to its active form through interactions with Ca+2 ions, membrane phospholipids, and factor VIII. Alterations of this gene, including point mutations, insertions and deletions, cause factor IX deficiency, which is a recessive X-linked disorder, also called hemophilia B or Christmas disease.

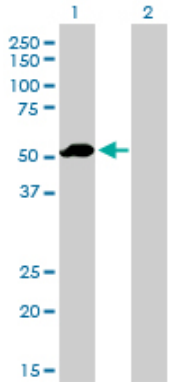
References

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.Genetic risk factors for hepatopulmonary syndrome in patients with advanced liver disease. Roberts KE, et al. Gastroenterology, 2010 Jul. PMID 20346360.Gene variants associated with venous thrombosis: confirmation in the MEGA study. Arellano AR, et al. J Thromb Haemost, 2010 May. PMID 20128871.Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.Contribution of magnesium in binding of factor IXa to the phospholipid surface: implications for vitamin K-dependent coagulation proteins. Messer AS, et al. J Thromb Haemost, 2009 Dec. PMID 19817987.

Images

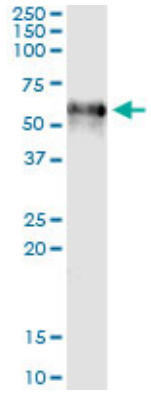


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.19 KDa) .

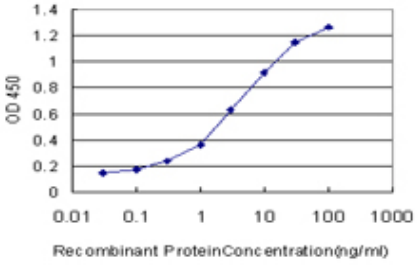


Western Blot analysis of F9 expression in transfected 293T cell line by F9 monoclonal antibody (M01), clone 2C9.

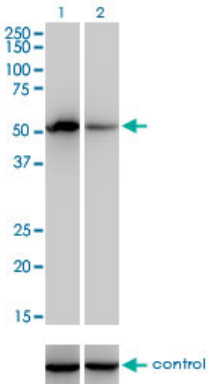
Lane 1: F9 transfected lysate(51.8 KDa).
Lane 2: Non-transfected lysate.



Immunoprecipitation of F9 transfected lysate using anti-F9 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with F9 MaxPab rabbit polyclonal antibody.



Detection limit for recombinant GST tagged F9 is approximately 0.1ng/ml as a capture antibody.



Western blot analysis of F9 over-expressed 293 cell line, cotransfected with F9 Validated Chimera RNAi ((Cat # AT1981a)

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