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PF4 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant PF4.
Catalog # AT3273a

Product Information

Application	WB, IP, E
Primary Accession	P02776
Other Accession	NM_002619
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3F6
Calculated MW	10845

Additional Information

Gene ID	5196
Other Names	Platelet factor 4, PF-4, C-X-C motif chemokine 4, Iroplact, Oncostatin-A, Platelet factor 4, short form, PF4, CXCL4, SCYB4
Target/Specificity	PF4 (NP_002610, 31 a.a. ~ 101 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	PF4 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

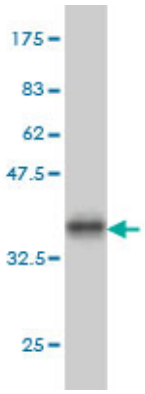
Platelet factor-4 is a 70-amino acid protein that is released from the alpha-granules of activated platelets and binds with high affinity to heparin. Its major physiologic role appears to be neutralization of heparin-like molecules on the endothelial surface of blood vessels, thereby inhibiting local antithrombin III activity and promoting coagulation. As a strong chemoattractant for neutrophils and fibroblasts, PF4 probably has a role in inflammation and wound repair (Eisman et al., 1990 [PubMed 1695112]).

References

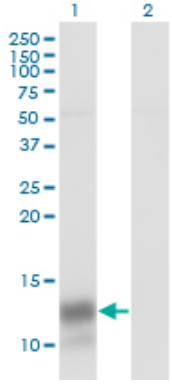
Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes

REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086. Interleukin-9 polymorphism in infants with respiratory syncytial virus infection: an opposite effect in boys and girls. Schuurhof A, et al. Pediatr Pulmonol, 2010 Jun. PMID 20503287. Antibodies to platelet factor 4-heparin complex and outcome in hemodialysis patients with diabetes. Krane V, et al. Clin J Am Soc Nephrol, 2010 May. PMID 20185595. Differential changes in platelet VEGF, Tsp, CXCL12, and CXCL4 in patients with metastatic cancer. Wiesner T, et al. Clin Exp Metastasis, 2010 Mar. PMID 20182908. CXCL4-induced monocyte survival, cytokine expression, and oxygen radical formation is regulated by sphingosine kinase 1. Kasper B, et al. Eur J Immunol, 2010 Apr. PMID 20104488.

Images

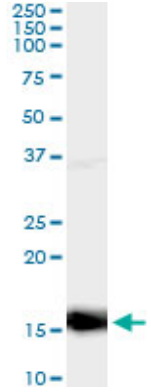


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (33.55 KDa) .

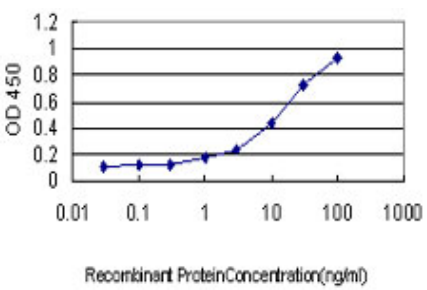


Western Blot analysis of PF4 expression in transfected 293T cell line by PF4 monoclonal antibody (M01), clone 3F6.

Lane 1: PF4 transfected lysate(10.8 KDa).
Lane 2: Non-transfected lysate.



Immunoprecipitation of PF4 transfected lysate using anti-PF4 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with PF4 MaxPab rabbit polyclonal antibody.



Detection limit for recombinant GST tagged PF4 is approximately 1ng/ml as a capture antibody.

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