

PF4 Antibody (monoclonal) (M01)
Mouse monoclonal antibody raised against a partial recombinant PF4.
Catalog # AT3273a

Specification

PF4 Antibody (monoclonal) (M01) - Product Information

| | |
|-------------------|---------------------------|
| Application | IP, WB, E |
| Primary Accession | P02776 |
| Other Accession | NM_002619 |
| Reactivity | Human |
| Host | mouse |
| Clonality | Monoclonal |
| Isotype | IgG1 Kappa |
| Calculated MW | 10845 |

PF4 Antibody (monoclonal) (M01) - 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

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.

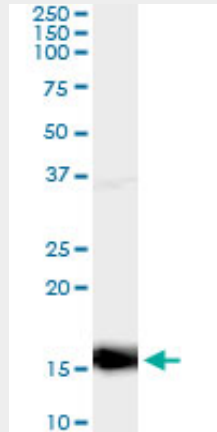
PF4 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

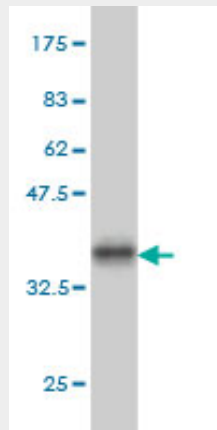
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

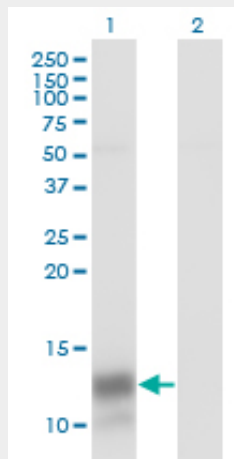
PF4 Antibody (monoclonal) (M01) - Images



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

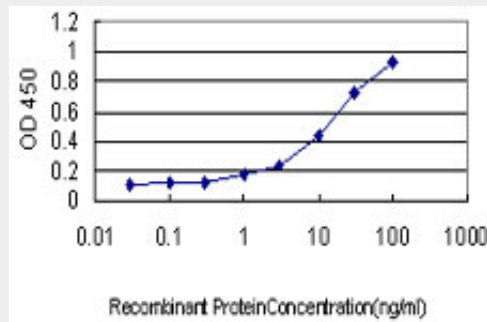


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (33.55 KDa) .



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.



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

PF4 Antibody (monoclonal) (M01) - 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]).

PF4 Antibody (monoclonal) (M01) - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolidinedione-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.