

Product datasheet for **AM31850PU-N**

PF4 Mouse Monoclonal Antibody [Clone ID: RTO]

Product data:

Product Type:	Primary Antibodies
Clone Name:	RTO
Applications:	ELISA, WB
Recommended Dilution:	ELISA: Use at 0.016 µg/ml. Western blot.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Human Factor IV purified from the supernatant of Thrombin activated platelets.
Specificity:	This antibody is specific for Human Platelet Factor IV. AM31850PU-N (clone RTO) is seen to bind free PF4 in the absence of any bound Heparin. This is unlike AM31851PU-N (clone KKO), which binds PF4/heparin complexes to a similar degree as auto-antibodies found in individuals with Heparin-Induced Thrombocytopenia/Thrombosis (HIT/HITT).
Formulation:	PBS containing 0.02% Sodium Azide as preservative. State: Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Protein G Chromatography of Ascitic fluid.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	platelet factor 4
Database Link:	Entrez Gene 5196 Human P02776



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Background:	Platelet Factor IV (PF4) is a 70 aa protein released from the alpha granules of activated platelets. PF4 is synthesized by bone marrow megakaryocytes and stored in alpha granules as a non-covalent bound tetramer. Platelet factor IV binds with high affinity to heparin and plays a role in inflammation and wound repair. PF4 is a chemoattractant for neutrophils, monocytes and fibroblasts and has been reported to be an immunologic regulator that inhibits suppressor T-cell activity.
Synonyms:	PF-4, Iroplact, Oncostatin-A, CXCL4, SCYB4
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	Chemokine signaling pathway, Cytokine-cytokine receptor interaction