

Product datasheet for **AM31850BT-N**

PF4 Mouse Monoclonal Antibody [Clone ID: RTO]

Product data:

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| 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. AM31850BT-N (clone RTO) is seen to bind free PF4 in the absence of any bound Heparin. This is unlike AM31851BT-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 and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. Label: Biotin State: Liquid purified IgG fraction. |
| Concentration: | lot specific |
| Conjugation: | Biotin |
| 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 |