

Product datasheet for BM2543F

CD41-CD61 Complex Mouse Monoclonal Antibody [Clone ID: P2]

Product data:

| | |
|-----------------------|--|
| Product Type: | Primary Antibodies |
| Clone Name: | P2 |
| Applications: | FC |
| Recommended Dilution: | Flow Cytometry: 20 µl/5 x 10 ⁵ platelets/test. A wash is required to yield optimal results. Bring reagent to 20-25°C prior to use. |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Human platelets. Hybridization of Sp2/0-Ag14 myeloma cells with spleen cells from Balb/c mice. |
| Specificity: | This antibody reacts to CD41. The molecular weight of the recognized antigen is 135-95kDa. Reacts with gpIIb in the intact complex with gpIIa, but not with gpIIb or gpIIa, separately. Inhibits platelet aggregation induced by thrombin, collagen and ADP. |
| Formulation: | PBS, pH 7.2 Label: FITC State: Liquid purified IgG fraction Stabilizer: 2 mg/ml BSA Preservative: 0.09% Sodium Azide Label: Fluorescein |
| Purification: | Ion Exchange or Affinity Chromatography |
| Conjugation: | FITC |
| Storage: | Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitve and should be protected from light. |
| Stability: | Shelf life: one year from despatch. |



Background:

Integrin alpha 2b (CD41) is a calcium-dependent, noncovalently associated heterodimer and contains a heavy chain (GPIIb alpha) and a light chain (GPIIb beta) linked by a single disulfide bond. The Integrin alpha 2B chain interacts with the Integrin beta 3 subunit/CD61 to form the platelet glycoprotein complex, gpIIb/IIIa. It is expressed on platelets and megakaryocytes. Ligands for the gpIIb/IIIa heterodimer include fibrinogen, von Willebrand factor, fibronectin, vitronectin, and thrombospondin. The gpIIb/IIIa complex is the major Integrin on platelets and is important for platelet adhesion and aggregation.

Synonyms:

GPIIb-IIIa, ITGA2B, GP2B, ITGAB, Platelet membrane glycoprotein IIb, GAlpha IIb, GPIIb, GP3A, CD41, CD61, Integrin alpha-IIb, Integrin beta-3, ITGB3