

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 gpIIIa, but not with gpIIb or gpIIIa, 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 photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.



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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, GPalpha IIb, GPIIb, GP3A, CD41, CD61, Integrin alpha-IIb, Integrin beta-3, ITGB3