

AM32344PU-N**Monoclonal Antibody to CD41 / ITGA2B - Purified**

Alternate names:	GP2B, GPalpha IIb, ITGAB, Integrin alpha-IIb, Platelet membrane glycoprotein IIb
Quantity:	1 ml
Concentration:	0.1 mg/ml
Background:	The integrins are a family of more than 23 heterodimeric transmembrane proteins that mediate cell-cell adhesions as well as cell-substratum adhesions and signal transduction processes. Integrins are heterodimers consisting of noncovalently associated alpha and beta subunits. CD61 non-covalently associates with CD41 (alpha IIb integrin) and is expressed by megakaryocytes and platelets. The CD61/CD41 complex acts as a receptor for such adhesive ligands as fibronectin, fibrinogen and von Willebrand factor during platelet stimulation.
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	CLB-48
Immunogen:	Human platelets.
Format:	State: Liquid purified Ig fraction Purification: Ammonium Sulphate Precipitation and Ion Exchange Chromatography Buffer System: 20mM TRIS, 150mM NaCl, pH 8.0 Preservatives: 0.001% Merthiolate Stabilizers: 10 mg BSA
Applications:	Immunofluorescence staining with analysis by FACS or Fluorescence Microscopy . Useful Marker for megakaryoblasts and megakaryoblastic leukemias. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The monoclonal antibody recognizes the intact platelet GPIIb/IIIa complex, i.e. it <u>does not</u> bind to dissociated GPIIb or GPIIIa. The antibody reacts with Human trombocytes and megakaryocytes. The antibody <u>does not</u> bind to platelets from patients with Glanzmann thrombasthenia and <u>does not</u> recognize the Vitronectin Receptor, which contains GPIIa as a beta subunit (<i>cf.</i> CD61). The monoclonal antibody activates Human thrombocytes and induces thrombocyte aggregation in the absence of trombocyte inhibitors such as EDTA.
Species Reactivity:	Tested: Human.
Add. Information:	Apparent Molecular Weight (under reducing conditions): GPIIIa; 110kD; GPIIb alpha chain; 125 kD, beta chain; 25kD.
Storage:	Store the antibody undiluted at 2-8°C. Shelf life: One year from despatch.
General Readings:	1. Modderman, P.W., et al., 1988, Thrombosis and Haemostasis 60, 68.