

## AM32330PU-N

## Monoclonal Antibody to CD41-CD61 Complex - Purified

<b>Alternate names:</b>	CD41, CD61, GP2B, GP3A, GPIIb, GPIIb-IIIa, GPalpha IIb, ITGA2B, ITGAB, ITGB3, Integrin alpha-IIb, Integrin beta-3, Platelet membrane glycoprotein IIb
<b>Quantity:</b>	1 ml
<b>Concentration:</b>	0.2 mg/ml (after reconstitution)
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Recommended Isotype Controls:</b>	SM10P (for use in human samples), AM03095PU-N
<b>Clone:</b>	CRC64
<b>Format:</b>	<b>State:</b> Lyophilized purified Ig fraction <b>Purification:</b> Ammonium Sulfate + DEAE-cellulose, gradient elution <b>Buffer System:</b> PBS <b>Preservatives:</b> 0.09% Sodium Azide <b>Reconstitution:</b> Restore with 1 ml sterile water (Sufficient for 100 tests)
<b>Applications:</b>	<b>Indirect Immunofluorescence</b> staining with analysis by Cytofluorometry in <b>Flow Cytometry</b> or <b>Fluorescence Microscopy</b> . A platelet aggregation is <b>blocked</b> at the concentration of 1-5 µg/µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This monoclonal (CRC64) antibody recognizes the <i>intact</i> Platelet GPIIb/IIIa Complex (alpha <sub>IIb</sub> /beta <sub>3</sub> -Integrin), i.e. it <b>does not</b> bind to dissociated GPIIb or GPIIIa. The antibody reacts with Human Platelets and megakaryocytes. <b>Apparent Molecular Weight under reducing conditions:</b> GPIIIa; 110 kD; GPIIb alpha chain; 125 kD, beta chain; 25 kD. The antibody <b>does not</b> bind to platelets from patients with Glanzmann thrombasthenia and does not recognize the Vitronectin receptor, which contains GPIIIa as a beta subunit (cf. CD61). CRC64 (both intact antibody and F(ab') <sub>2</sub> fragments) inhibits platelet aggregation by blocking fibrinogen binding to the glycoprotein IIb-IIIa complex. This monoclonal antibody is a useful marker for megakaryoblasts and megakaryoblastic leukemias and also useful for Functional Studies.
<b>Species Reactivity:</b>	<b>Tested:</b> Human.
<b>Storage:</b>	Store undiluted at 2-8°C. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Khaspekova, et al., 1993, Br. J. Haematol. 85, 332-340. 2. Byzova, et al., 1994, Bull. Biol. Exp. 10, 402-405 (in Russian, English translation)