

## Product datasheet for **AM32081PU-N**

### CD41 (ITGA2B) Mouse Monoclonal Antibody [Clone ID: CA3]

#### Product data:

|                       |  |
|-----------------------|--|
| Product Type:         | Primary Antibodies   |
| Clone Name:           | CA3  |
| Applications:         | ELISA, IHC, WB   |
| Recommended Dilution: | <b>Western blotting:</b> 1/1000.<br><b>Immunohistochemical on Frozen Sections.</b><br><b>Other Immunoassays for cellular and tumor biology.</b>  |
| Reactivity:           | Human  |
| Host:                 | Mouse  |
| Isotype:              | IgG1   |
| Clonality:            | Monoclonal   |
| Immunogen:            | Partially purified platelet glycoprotein IIb/IIIa complex.<br>Hybridoma produced by fusion between myeloma cells and Balb/c spleen cells.  |
| Specificity:          | The antibody clone CA3 reacts with the alpha-IIb-subunit of the beta-integrins.<br>Reacts specifically with platelets, megakaryocytes and leukemic cells able to megakaryocytic differentiation. |
| Formulation:          | PBS<br>State: Ig Fraction<br>State: Liquid Ig fraction<br>Stabilizer: 1.0% BSA<br>Preservative: 0.09% Sodium Azide   |
| Concentration:        | lot specific   |
| Conjugation:          | Unconjugated   |
| Storage:              | Store the antibody undiluted at 2-8°C.   |
| Stability:            | Shelf life: one year from despatch.  |
| Gene Name:            | integrin subunit alpha 2b  |
| Database Link:        | <a href="#">Entrez Gene 3674 Human P08514</a>  |



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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. The alpha IIb-Integrin subunit is a specific marker for platelets and megakaryocytes and can be utilized for this purpose in various immunological techniques.

**Synonyms:**

Integrin alpha-IIb, GP2B, ITGAB, GPalpha IIb