

Product datasheet for **SM2035B**

Itga2b Rat Monoclonal Antibody [Clone ID: MWReg30]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MWReg30
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 10 µl of Neat-1/10 diluted antibody to label 10e6 cells in 100 µl.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	This antibody recognizes the integrin alpha IIb subunit CD41. Clone MWReg30 has been reported to inhibit PMA induced aggregation <i>in vitro</i> and to induce hypothermia <i>in vivo</i> . We recommend the use of SM2035A for use in functional studies.
Formulation:	Phosphate buffered saline containing, pH 7.4 with 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: Biotin State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G.
Conjugation:	Biotin
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin alpha 2b
Database Link:	Entrez Gene 16399 Mouse Q9QUM0



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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. CD41 is expressed on platelets and megakaryocytes and forms a heterodimer with CD61. CD41/CD61 is important for platelet adhesion and aggregation.

Synonyms:

Integrin alpha-IIb, GP2B, ITGAB, GPalpha IIb