

Product datasheet for **SM2035R**

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 antibody to label 10e6 cells in 100 µl. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	This antibody recognises the integrin alpha IIb subunit CD41. Clone MWReg30 has been reported to inhibit PMA induced aggregation in vitro and to induce hypothermia in vivo. We recommend the use of SM2035A for use in functional studies.
Formulation:	PBS containing 0.09% Sodium Azide as preservative, 5% Sucrose and 1% BSA as stabilizer. Label: PE State: Liquid purified IgG fraction. Label: R. Phycoerythrin (RPE)
Reconstitution Method:	Restore with 1 ml distilled water
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G.
Conjugation:	PE
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.
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