

Product datasheet for **SM1135PS**

CD51 (ITGAV) Mouse Monoclonal Antibody [Clone ID: 23C6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	23C6
Applications:	FC, IP
Recommended Dilution:	Flow Cytometry: Use 10 µl of 1/40-1/80 diluted antibody to label 10e6 cells in 100 µl. Immunoprecipitation.
Reactivity:	Chicken, Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Osteoclasts from osteoclastomas. Spleen cells from immunised mice were fused with cells of the mouse X63.Ag8.653 myeloma cell line.
Specificity:	This antibody recognises the intact complex formed between the CD51 and CD61 molecules (alpha V and beta 3 integrins). This complex binds vitronectin at the RGD sequence and can also bind fibrinogen, von Willebrand factor, thrombospondin, fibronectin, osteopontin and collagen. This antibody reacts with osteoclasts, placenta, melanoma cell lines and weakly with platelets.
Formulation:	PBS, pH 7.4, containing 0.09% Sodium Azide as preservative. State: Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A.
Conjugation:	Unconjugated
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 subunit alpha V



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Database Link: [Entrez Gene 3685 Human P06756](#)

Background: CD51/CD61 is an integrin complex known as alphaV beta3. It is expressed at high levels on osteoclasts, endothelial cells, and melanoma cells and at low levels on platelets and macrophages. CD51 is a heterodimer composed of disulfide-linked 125 kD and 24 kD proteins. CD61 is also a member of the integrin family known as gpIIIa or beta3 integrin. It is a 110 kD common beta subunit of CD51/CD61 or CD41/CD61 complex. CD51/CD61, also known as the vitronectin receptor, mediates the binding of platelets to immobilized vitronectin without prior activation. Other ligands include RGD-containing proteins such as fibrinogen, fibronectin, von Willebrand factor (vWf), laminin, thrombospondin and the neural adhesion molecule L1. CD51/CD61 also mediates cell-cell adhesion via interaction with CD31. CD51/CD61 acts as an activation-independent receptor for platelet attachment and spreading on vitronectin and other RGD-containing proteins, including matrix components.

Synonyms: ITGB3, ITGB-3, GP3A, Platelet membrane glycoprotein IIIa, GPIIIa, CD61, Integrin beta-3, ITGAV, MSK8, VNRA, Vitronectin receptor subunit alpha, CD51, Integrin alpha-V, Vitronectin Receptor