Datasheet for ABIN118723

anti-CD51 antibody

Go to Product page

Overview

Quantity:	0.1 mg
Target:	CD51 (ITGAV)
Reactivity:	Human, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD51 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP)

Product Details

Immunogen:	Osteoclasts from osteoclastomas. Spleen cells from immunised mice were fused with cells of the mouse X63.Ag8.653 myeloma cell line.
Clone:	23C6
Isotype:	IgG1
Purification:	Affinity Chromatography on Protein A.

Target Details

Target:	CD51 (ITGAV)
Alternative Name:	CD51 / ITGAV (ITGAV Products)
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.

Target Details

	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: CD51, CD61, GP3A, GPIIIa, ITGAV, ITGB-3, ITGB3, Integrin alpha-V, Integrin beta-3, MSK8, Platelet membrane glycoprotein IIIa, VNRA, Vitronectin Receptor, Vitronectin receptor subunit alpha
Gene ID:	9606
UniProt:	P06756
Pathways:	Cell-Cell Junction Organization, Signaling Events mediated by VEGFR1 and VEGFR2, Growth Factor Binding, Integrin Complex

Application Details

Application Notes:	Flow Cytometry: Use 10 µL of 1/40-1/80 diluted antibody to label 10^6 cells in 100 µL. Immunoprecipitation. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	PBS, pH 7.4, containing 0.09 % Sodium Azide as preservative.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.