



Datasheet for ABIN2191903

anti-CD51/CD61 antibody (FITC)



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Overview

Quantity:	100 µg
Target:	CD51/CD61 (ITGAV/ITGB3)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD51/CD61 antibody is conjugated to FITC
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC)

Product Details

Clone:	BV3
Isotype:	IgG1
Cross-Reactivity (Details):	Cross reactivity: Human : Yes

Target Details

Target:	CD51/CD61 (ITGAV/ITGB3)
Abstract:	ITGAV/ITGB3 Products

Background: The monoclonal antibody BV3 recognizes human alpha-V/beta-3 integrin present on human cells. Integrins are a superfamily of $\alpha\beta$ heterodimeric cell-surface adhesion receptors found in many species. They are expressed on a variety of cells and mediate numerous physiological processes, including inflammation, migration, adhesion and proliferation. The $\beta 3$ family consist of 2 members: $\alpha 1\beta 3$ and $\alpha v\beta 3$, which mediate cell-cell and cell-ECM interactions and are

Target Details

important for cellular migration, regulation of gene expression, cell survival, adhesion and differentiation. All processes which are involved in tissue development, angiogenesis and thrombosis. Each subunit consist of an extracellular domain, a single transmembrane segment and a cytoplasmic tail. They connect to the actin cytoskeleton via adaptor proteins that bind their cytoplasmic tails. Cell matrix adhesions also act as signaling units by their capacity to organize the actin cytoskeleton and to accumulate various signaling intermediates. Integrin α β 3 was originally identified as the vitronectin receptor. Nevertheless, other ligands include fibrinogen, fibronectin, laminin, thrombospondin, Von Willebrand factor, tenascin, osteopontin and several forms of collagen. The interactions of integrin α β 3 to those ligands is mediated by the RGD (Arg-Gly-Asp) sequence motif present in these proteins. Deregulation of β 3 integrins is involved in e.g. autoimmune diseases, cardiovascular disorders, transplant rejection and tumorigenesis. In contribution to the latter, integrin α β 3 contribute by supporting growth of small (tumor) blood vessels thereby potentiating the metastatic potential. Overexpression of integrin α β 3 has been demonstrated in various tumors and activated endothelium. Aliases Vitronectin receptor, integrin α β 3, cd51/cd61

Application Details

Application Notes:	For flow cytometry and innumihistochemistry dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50. Positive HUVEC cells control
Restrictions:	For Research Use only

Handling

Buffer:	PBS, containing 1 % bovine serum albumin and 0.02 % sodium azide 2* 3 1
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Product should be stored at 4 °C. Under recommended storage conditions, product is stable for at least one year. The exact expiry date is indicated on the label.

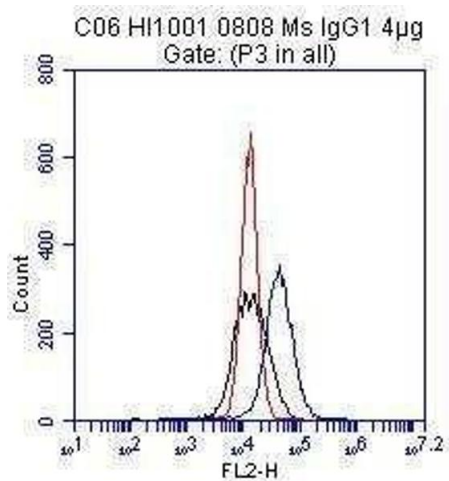
Publications

Product cited in:	Müller, Peri, Doni, Perruchoud, Landmann, Pasqualini, Mantovani: "High circulating levels of the
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IL-1 type II decoy receptor in critically ill patients with sepsis: association of high decoy receptor levels with glucocorticoid administration." in: **Journal of leukocyte biology**, Vol. 72, Issue 4, pp. 643-9, (2002) ([PubMed](#)).

Penton-Rol, Orlando, Polentarutti, Bernasconi, Muzio, Introna, Mantovani et al.: "Bacterial lipopolysaccharide causes rapid shedding, followed by inhibition of mRNA expression, of the IL-1 type II receptor, with concomitant up-regulation of the type I receptor and induction of ..." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 162, Issue 5, pp. 2931-8, (1999) ([PubMed](#)).

Images



Flow Cytometry

Image 1. HUVEC cells were incubated with 2µg/ml HM2034 for 1h at 4°C