

Datasheet for ABIN1106450
anti-CD51 antibody (FITC)



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1 Image

Overview

Quantity:	0.1 mg
Target:	CD51 (ITGAV)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD51 antibody is conjugated to FITC
Application:	Immunoprecipitation (IP), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Clone:	BV3
Isotype:	IgG1
Specificity:	The monoclonal antibody BV3 recognizes human alpha-V/beta-3 integrin present on human cells.
Cross-Reactivity (Details):	Species reactivity (tested): Human Also reacts to: Beta-3 Integrin
Purification:	Protein G

Target Details

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

Target Details

Background:	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: $\alpha\text{IIb}\beta 3$ and $\alpha\text{v}\beta 3$, which mediate cell-cell and cell-ECM interactions and are 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 $\alpha\text{v}\beta 3$ 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 $\alpha\text{v}\beta 3$ to those ligands is mediated by the RGD (Arg-Gly-Asp) sequence motif present in these proteins. Deregulation of $\beta 3$ integrins is involved in e.g. autoimmune diseases, cardiovascular disorders, transplant rejection and tumorigenesis. In contribution to the latter, integrin $\alpha\text{v}\beta 3$ contribute by supporting growth of small (tumor) blood vessels thereby potentiating the metastatic potential. Overexpression of integrin $\alpha\text{v}\beta 3$ has been demonstrated in various tumors and activated endothelium. Synonyms: Integrin alpha-V, MSK8, VNRA, Vitronectin receptor subunit alpha
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Gene ID:	3685
NCBI Accession:	NP_001138472
UniProt:	P06756
Pathways:	Cell-Cell Junction Organization , Signaling Events mediated by VEGFR1 and VEGFR2 , Growth Factor Binding , Integrin Complex

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

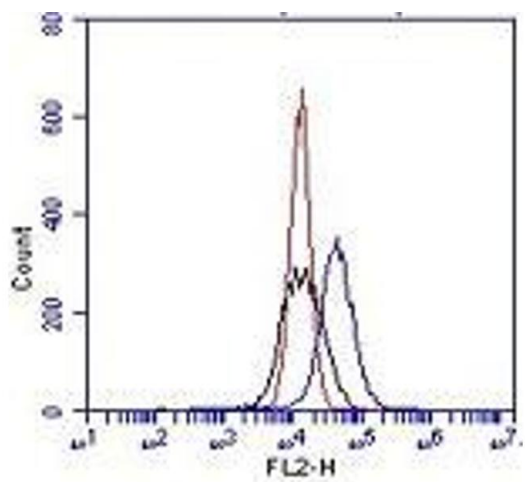
Handling

Concentration:	0.1 mg/mL
Buffer:	PBS, 0.02 % sodium azide, 1 % bovine serum albumin

Handling

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:	Store at 2 - 8 °C.

Images



Flow Cytometry

Image 1.