

Mouse anti-Human alpha-V/beta-3 Integrin Monoclonal Antibody

alpha-V/beta-3 Integrin, Human, mAb BV3

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA77790	Mouse	Human	Immunoprecipitation, Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry

PRODUCT SYNONYMS

alpha-V/beta-3 Integrin; Monoclonal Antibody; Human; mAb BV3; Vitronectin receptor; integrin alpha-v/beta-3; cd51/cd61; anti-alpha-V/beta-3 Integrin antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Purity/Purification	Protein G
Form/Format	0.2 Um filtered in PBS + 0.1% BSA + 0.02% NaN3
Concentration	100 ug/ml (varies by lot)
Applicable Applications for anti-alpha-V/beta-3 Integrin antibody	IP (Immunoprecipitation), IA (Immunoassay), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry)
Cross-Reactivity	Chicken, Rat
Immunogen	Full length human alpha-V/beta-3 Integrin protein
Preparation and Storage	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.

IMAGES



FCM/FACS (Flow Cytometry)

FC: HUVEC cells were incubated with 2 ug/ml AAA77790 for 1h at 4°C. Black: isotype control mouse IgG1, Red: cells only, Blue: AAA77790, clone BV3.

ADDITIONAL INFORMATION

Related Product Information for anti-alpha-V/beta-3 Integrin antibody	<p>The monoclonal antibody BV3 recognizes human alpha-V/beta-3 integrin present on human cells. Integrins are a superfamily of alphabeta 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 α_3 family consist of 2 members: $\alpha_5\beta_3$ and $\alpha_v\beta_3$, 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 theircytoplasmic tails. Cell matrix adhesions also act as signaling units by their capacity to organize the actin cytoskeleton and to accumulate various signaling intermediates. Integrin alphavbeta3 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 $\alpha_v\beta_3$ to those ligands is mediated by the RGD (Arg-Gly-Asp) sequence motif present in these proteins. Deregulation of α_3 integrins is involved in e.g. autoimmune diseases, cardiovascular disorders, transplant rejection and tumorigenesis. In contribution to the latter, integrin $\alpha_v\beta_3$ contribute by supporting growth of small (tumor) blood vessels thereby potentiating the metastatic potential. Overexpression of integrin $\alpha_v\beta_3$ has been demonstrated in various tumors and activated endothelium.</p>
References	<p>1. Newton, S et al.; Electroconvulsive seizure increases adult hippocampal angiogenesis in rats. Eur J neurosc. 2006, 24:819-828</p> <p>2. Merkel, O et al.; Integrin alphavbeta3 targeted gene delivery using RGD peptidomimetic conjugates with copolymers of PRGylated poly(ethyleneimine). Bioconj chem.. 2009, 20:1270-1280</p> <p>3. Dare, E et al.; Fibrin sealants from fresh/frozen plasma as scaffolds for in vitro articular cartilage regeneration. Tissue engineering, 2009, 15:2285</p>

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/alpha-v-beta-3-integrin-antibody-immunoprecipitation-immunoassay-flow-cytometry-immunofluorescence-immunohistochemistry-elisa/77790>