

RecomAb™

HuAb

ITGA5/ITGB1 humanized monoclonal antibody, clone M200 (Volociximab)

Catalog # RAB00061 Size 200 ug

Specification

Product Description	Humanized recombinant monoclonal antibody raised against human ITGA5/ITGB1.
Antibody Species	Human
Immunogen	Original antibody is raised against heterodimeric alpha 5 beta 1 Fc fusion protein.
Reactivity	Human
Specificity	The antibody binds to human alpha 5 beta 1 integrin with a Kd of 0.367 nM (determined by Biacore), an EC50 of 0.2 nM and an IC50 of 2.3 nM.
Form	Liquid
Purification	Protein A affinity purification
Isotype	Human IgG4, kappa
Recommend Usage	Blocking ELISA (0.1 ug/mL) Flow Cytometry (1 ug/mL) Immunofluorescence Immunohistochemistry (5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (0.02% Proclin 300)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Immunohistochemistry

- Immunofluorescence
- Enzyme-linked Immunoabsorbent Assay
- Blocking
- Flow Cytometry

Gene Info — ITGA5

Entrez GeneID [3678](#)

Protein Accession# [P08648;P05556](#)

Gene Name ITGA5

Gene Alias CD49e, FNRA, VLA5A

Gene Description integrin, alpha 5 (fibronectin receptor, alpha polypeptide)

Omim ID [135620](#)

Gene Ontology [Hyperlink](#)

Gene Summary The product of this gene belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This gene encodes the integrin alpha 5 chain. Alpha chain 5 undergoes post-translational cleavage in the extracellular domain to yield disulfide-linked light and heavy chains that join with beta 1 to form a fibronectin receptor. In addition to adhesion, integrins are known to participate in cell-surface mediated signalling. [provided by RefSeq]

Other Designations fibronectin receptor, alpha subunit|integrin alpha 5|very late activation protein 5, alpha subunit

Gene Info — ITGB1

Entrez GeneID [3688](#)

Protein Accession# [P08648;P05556](#)

Gene Name ITGB1

Gene Alias CD29, FNRB, GPIIA, MDF2, MSK12, VLA-BETA, VLAB

Gene Description integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)

Omim ID [135630](#)

Gene Ontology [Hyperlink](#)

Gene Summary Integrins are heterodimeric proteins made up of alpha and beta subunits. At least 18 alpha and 8 beta subunits have been described in mammals. Integrin family members are membrane receptors involved in cell adhesion and recognition in a variety of processes including embryogenesis, hemostasis, tissue repair, immune response and metastatic diffusion of tumor cells. This gene encodes a beta subunit. Multiple alternatively spliced transcript variants which encode different protein isoforms have been found for this gene. [provided by RefSeq]

Other Designations OTTHUMP00000019420|OTTHUMP00000046253|OTTHUMP00000063731|OTTHUMP00000063732|OTTHUMP00000063733|fibronectin receptor beta subunit|integrin VLA-4 beta subunit|integrin beta 1

Pathway

- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)
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- [Axon guidance](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [ECM-receptor interaction](#)
- [ECM-receptor interaction](#)
- [Focal adhesion](#)
- [Focal adhesion](#)
- [Hematopoietic cell lineage](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [Leukocyte transendothelial migration](#)
- [Pathogenic Escherichia coli infection - EHEC](#)
- [Pathways in cancer](#)
- [Regulation of actin cytoskeleton](#)
- [Regulation of actin cytoskeleton](#)

- [Small cell lung cancer](#)

Disease

- [Alzheimer Disease](#)
- [Atherosclerosis](#)
- [Brain Ischemia](#)
- [Cardiovascular Diseases](#)
- [Chylothorax](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Inflammation](#)
- [Myocardial Infarction](#)
- [Ovarian Neoplasms](#)
- [Prostatic Neoplasms](#)
- [Recurrence](#)
- [Stroke](#)
- [Tobacco Use Disorder](#)