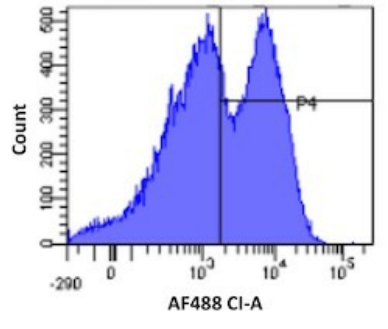
RecomAb™

ITGB1 recombinant monoclonal antibody, clone K20

Catalog # RAB03213 Size 200 ug

Applications



Flow Cytometry

Flow cytometric analysis of human leukocytes with ITGB1 recombinant monoclonal antibody, clone K20 (Cat # RAB03213).
Human leukocytes were stained with an isotype control (3.0- panel A) or the rmeric version of RAB03213 (panel B) at a concentration of 1 ug/ml for 30 mins at RT. After washing- bound antibody was detected using a AF488 conjugated donkey anti-ribody (and cells analysed on a FACSCanto flow-cytometer.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human ITGB1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against human T-cell lymphoma cells injected into Biozzi high-responder mice.
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Isotype	IgG
Recommend Usage	Flow Cytometry Immunohistochemistry (Frozen sections) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS with 0.02% Proclin 300

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Storage Instruction	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Immunohistochemistry (Frozen sections)
- Flow Cytometry

Flow cytometric analysis of human leukocytes with ITGB1 recombinant monoclonal antibody, clone K20 (Cat # RAB03213). Human leukocytes were stained with an isotype control (3.0- panel A) or the rmeric version of RAB03213 (panel B) at a concentration of 1 ug/ml for 30 mins at RT. After washing- bound antibody was detected using a AF488 conjugated donkey anti-ribody (and cells analysed on a FACSCanto flow-cytometer.

Gene Info — ITGB1

Entrez GeneID	3688
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 receptor s involved in cell adhesion and recognition in a variety of processes including embryogenesis, he mostasis, tissue repair, immune response and metastatic diffusion of tumor cells. This gene enco des 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|OTTHUMP000000 63732|OTTHUMP00000063733|fibronectin receptor beta subunit|integrin VLA-4 beta subunit|inte grin beta 1

Pathway

- Arrhythmogenic right ventricular cardiomyopathy (ARVC)
- Axon guidance

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- Cell adhesion molecules (CAMs)
- ECM-receptor interaction
- Focal adhesion
- Hypertrophic cardiomyopathy (HCM)
- Leukocyte transendothelial migration
- Pathogenic Escherichia coli infection - EHEC
- Pathways in cancer
- 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

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