





ITGA2 Monoclonal Antibody (AK7), Biotin

Catalog Number MA1-80244 Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Non-human primate
Host/Isotope	Mouse / IgG1	Published species	Human
Class	Monoclonal	Tested Applications	Dilution *
Туре	Antibody	Flow Cytometry (Flow)	Assay-dependent
Clone	AK7	Published Applications	
Immunogen	Proprietary Immunogen.	Flow Cytometry (Flow)	See 1 publications below
Conjugate	Biotin	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	0.1 mg/mL		
Purification	Protein A		
Storage buffer	PBS with 1% BSA		
Contains	0.09% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

For FACS analysis, use 10 μ L of the suggested working dilution to label 1x10 $^{\circ}$ 6 cells in 100 μ L. Mouse anti Human CD49b antibody, clone AK7 recognizes the integrin alpha 2 subunit, a approximately 160 kDa glycoprotein that non-covalently associates with the approximately 130 kDa integrin beta 1 subunit to form the VLA-2 complex.

Background/Target Information

CD49b (Integrin alpha 2, Integrin alpha 2 chain, VLA-2 alpha chain, HM alpha 2) is a member of the integrin family. It is a glycoprotein with molecular weight of 150 kD, and it complexes with CD29 (Integrin beta 1) to form the heterodimeric integrin VLA-2 (integrin alpha 2 beta 1, or GPIa/IIa) complex. VLA-2 is an extracellular receptor for laminin, collagen, and fibronectin, and interaction with its ligands results in the activation of intracellular signaling pathways. It has reported roles in VEGF-induced angiogenesis in vivo, as well as adhesion and lymphocyte activation. CD49b is expressed by NK cells, NK-T cells, monocytes, platelets, and epithelial cells. It is also expressed on adaptive immune cells such as T and B cells, specifically on a subset of CD4+ T cells in the spleen, on intraepithelial and lamina propria lymphocytes in the intestine, as well as on a population of peripheral CD4+ type 1 T regulatory (Tr1) cells that co-express LAG-3.

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PubMed References	For ITGA2 Monoclonal Antibody (AK7), Biotin	
1 Flow Cytometry References		
Species / Dilution	Summary	
Human / Not Cited	MA1-80244 was used in flow cytometry to describe a method to expand antigen-specific regulatory T cells in vivo.	
	Nature (2016; 530: 434) "Expanding antigen-specific regulatory networks to treat autoimmunity." Author(s):Clemente-Casares X,Blanco J,Ambalavanan P,Yamanouchi J,Singha S,Fandos C,Tsai S,Wang J,Garabatos N, Izquierdo C,Agrawal S,Keough MB,Yong VW,James E,Moore A,Yang Y,Stratmann T,Serra P,Santamaria P PubMed Article URL:http://dx.doi.org/10.1038/nature16962	

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