antibodies -online.com

anti-ITGA2 antibody (AA 42-245)







Images



Publications



Go to Product page

\sim			
	IV/E	۱//۱۲	$I \cap V$

Quantity:	50 μg
Target:	ITGA2
Binding Specificity:	AA 42-245
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ITGA2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human VLA-2alpha aa.42-245	
Clone:	2-CD49b	
Isotype:	lgG2a	
Characteristics:	 Since applications vary, each investigator should titrate the reagent to obtain optimal results. Please refer to us for technical protocols. Source of all serum proteins is from USDA inspected abattoirs located in the United States. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 	
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.	

Target Details

Tanget Details	ITO A O	
Target:	ITGA2	
Alternative Name:	CD49b (ITGA2 Products)	
Background:	Integrins are a family of dimeric proteins that mediate cell-to-cell and extracellular matrix	
	adhesion. They consist of a large alpha chain that is non-covalently associated with a smaller	
	beta chain which is used to define integrin subfamilies. These molecules exhibit a wide range of	
	expression throughout development and adulthood. VLA-2 (very late antigen), a member of the	
	integrin superfamily, was identified on activated T cells, but has since been reported to be on	
	various cell types. VLA-2 is reported to be a heterodimer of integrin alpha2 (CD49b) and integrin	
	beta1 (CD29) subunits. The alpha2 chain contains a large extracellular domain, a	
	transmembrane domain, and a short cytoplasmic tail. VLA-2 functions as a collagen receptor	
	on platelets and fibroblasts, as well as a collagen and laminin receptor on endothelial and	
	epithelial cells. On activated T cells, VLA-2, like LFA-1, exhibits increased number and affinity of	
	ligand binding. Interactions of these molecules with their extracellular matrix ligands is	
	important for directing effector T cells to their target tissues and to provide co-stimulatory	
	signals. Thus, VLA-2 not only plays an important role in cellular adhesion, but may function in	
	intracellular signal transmission. This antibody is routinely tested by western blot analysis.	
	Synonyms: Integrin alpha2, VLA-2alpha	
Molecular Weight:	150 kDa	
Pathways:	CXCR4-mediated Signaling Events, Smooth Muscle Cell Migration, Integrin Complex	
Application Details		
Comment:	Related Products: ABIN968535, ABIN967389	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	250 μg/mL	
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which	
	should be handled by trained staff only.	

Handling

Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

Product cited in:

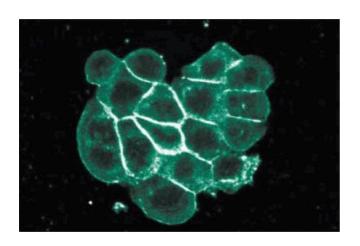
Förster, Mäkela, Wärri, Kietz, Becker, Hultenby, Warner, Gustafsson: "Involvement of estrogen receptor beta in terminal differentiation of mammary gland epithelium." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 99, Issue 24, pp. 15578-83, (2002) (PubMed).

Russell, Tofilon: "Radiation-induced activation of nuclear factor-kappaB involves selective degradation of plasma membrane-associated I(kappa)B(alpha)." in: **Molecular biology of the cell**, Vol. 13, Issue 10, pp. 3431-40, (2002) (PubMed).

Emsley, King, Bergelson, Liddington: "Crystal structure of the I domain from integrin alpha2beta1." in: **The Journal of biological chemistry**, Vol. 272, Issue 45, pp. 28512-7, (1997) (PubMed).

Wu, Santoro: "Complex patterns of expression suggest extensive roles for the alpha 2 beta 1 integrin in murine development." in: **Developmental dynamics : an official publication of the American Association of Anatomists**, Vol. 199, Issue 4, pp. 292-314, (1994) (PubMed).

Images



Immunofluorescence

Image 1. Immunofluorescence staining of WiDr cells (Human colorectal adenocarcinoma, ATCC CCL-218).



Western Blotting

Image 2. Western blot analysis of CD49b (Integrin alpha2) on a HeLa cell lysate (Human cervical epitheloid carcinoma, ATCC CCL-2.2). Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the anti-human CD49b antibody.