

Integrin alpha 4 / CD49d Antibody (44H6)

Lot Number: RB2158013
Product Data Sheet

Tested Species Reactivity
Human (Hu)

Tested Applications	Dilution *
Immunohistochemistry (Frozen) (IHC (F))	1:50-1:100
Flow Cytometry (Flow)	1:40

* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

Details	
Catalog Number:	MA5-16515
Size:	200 ug
Class:	Monoclonal
Type:	Antibody
Clone:	44H6
Host / Isotype:	Mouse / IgG1
Immunogen:	HOON pre-B leukaemia cell line

Form Information	
Form:	Liquid
Concentration:	1mg/ml
Purification:	Ion-exchange chromatography
Storage Buffer:	PBS
Preservative:	0.09% sodium azide
Storage Conditions:	4°C or -20°C if preferred

Product Specific Information	General Information
<p>Overnight incubation with clone 44H6 is recommended for optimal results. The epitope recognized by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. We recommend the use of acetone fixation for frozen sections. A suggested positive control for immunohistochemical applications is human tonsil. For FACS analysis, use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul.</p> <p><i>For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.</i></p>	<p>The integrin alpha 4 (also known as CD49d and ITGA4) belongs to the integrin alpha chain family of proteins. Integrins are heterodimeric integral membrane proteins composed of an alpha and beta chains. Alpha4 chain associates with either beta1 or beta7 chain. It has been demonstrated that the putative ligand-binding sites of both integrin alpha4beta1 and alpha4beta7 is located on the alpha4 chain. These ligands included Madcam, VCAM, and fibronectin. Madcam is known as the principal ligand for integrin alpha4beta7. Recently it was also demonstrated that HIV-1 envelope can mimic Madcam by binding to and signaling though integrin alpha4beta7, the gut mucosal homing receptor for peripheral T cells.</p>

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