

Product Datasheet

Integrin alpha 4/CD49d Antibody (HP2/1) - BSA Free NB120-22858

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB120-22858

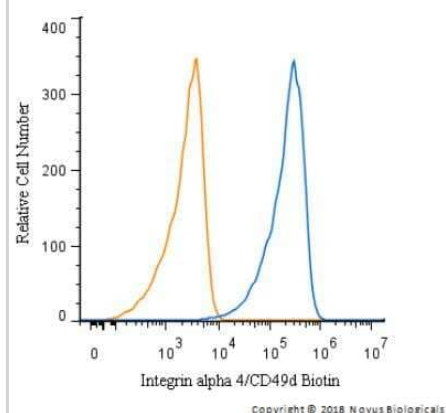
Integrin alpha 4/CD49d Antibody (HP2/1) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	HP2/1
Preservative	0.1% Sodium Azide
Isotype	IgG1
Purity	Protein A or G purified
Buffer	PBS
Product Description	
Description	Fusion Partners: Spleen cells from immunised BALB/c mice were fused with cells of the X63 Ag8.653 myeloma cell line.
Host	Mouse
Gene ID	3676
Gene Symbol	ITGA4
Species	Human
Reactivity Notes	Predicted cross-reactivities: Rhesus Monkey, Mustelid, Rat, Rabbit, Porcine, Llama, Mink, Equine, Goat, Feline, Cynomolgus monkey, Bovine
Specificity/Sensitivity	Mouse anti Human CD49d monoclonal antibody, clone HP2/1 recognizes human CD49d also known as integrin alpha-4 or VLA-4 subunit alpha. CD49d is a ~150kDa single pass type 1 transmembrane glycoprotein with seven FG-GAP repeats, characteristic of alpha integrins, in its extracellular domain. CD49d can be proteolytically cleaved to yield fragments of 80 and 70kDa (Hemler et al. 1987). CD49d associates with either CD29 to form VLA-4 or with Integrin beta-7 to form The Peyer patches-specific homing receptor LPAM-1, involved in the lymphocyte migration and homing to gut-associated lymphoid tissue (Sackstein 2006) through its interaction with MadCam-1, preferentially expressed on Peyer's patch high endothelial venules and postcapillary venules in lamina propria (Briskin et al. 1997). Mouse anti human CD49d, clone HP2/1 binds to both intact and the 80kDa fragment of integrin alpha-4. CD49d is expressed on monocytes, T cells, B cells, thymocytes and Langerhans cells (de Graaf et al. 1995). Mouse anti Human CD49d, clone HP2/1 can be used in basic studies of VLA-4 mediated adhesion and its interaction with the VCAM-1 structure and has been demonstrated to inhibit cell binding to soluble VCAM-1 (Weller et al. 1991).
Immunogen	JM leukaemia line
Product Application Details	
Applications	Flow Cytometry, Functional, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
Recommended Dilutions	Flow Cytometry 1ug/5 x 10 ⁵ cells, Immunohistochemistry 1:10-1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500, Functional
Application Notes	This product contains sodium azide, removal by dialysis is recommended prior to use in functional assays.



Images

Flow Cytometry: Integrin alpha 4/CD49d Antibody (HP2/1) [NB120-22858] - A surface stain was performed on Jurkat Cells with Integrin alpha 4/CD49d Antibody (HP2/1) NB120-22858B and a matched isotype control. Both antibodies were conjugated to biotin. Cells were incubated in an antibody dilution of 1 ug/mL for 20 minutes at room temperature, followed by Streptavidin - R-Phycoerythrin Protein (2012-1000, Novus Biologicals).





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Products Related to NB120-22858

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
H00003676-Q01-10ug	Recombinant Human Integrin alpha 4/CD49d GST (N-Term) Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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