

# Product Datasheet

## Integrin alpha 4/CD49d Antibody (HP2/1) [Alexa Fluor™ Plus 680] NB120-22858AFP680

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NB120-22858AFP680**

Integrin alpha 4/CD49d Antibody (HP2/1) [Alexa Fluor™ Plus 680]

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C in the dark.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	HP2/1
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1
<b>Conjugate</b>	Alexa Fluor Plus 680
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	50mM Sodium Borate
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	3676
<b>Gene Symbol</b>	ITGA4
<b>Species</b>	Human
<b>Reactivity Notes</b>	Predicted cross-reactivities: Rhesus Monkey, Mustelid, Rat, Rabbit, Porcine, Llama, Mink, Equine, Goat, Feline, Cynomolgus monkey, Bovine
<b>Specificity/Sensitivity</b>	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).
<b>Immunogen</b>	JM leukaemia line

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<b>Product Application Details</b>	
<b>Applications</b>	Flow Cytometry, Functional, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
<b>Recommended Dilutions</b>	Flow Cytometry, Immunohistochemistry, Immunoprecipitation, Immunohistochemistry-Frozen, Functional
<b>Application Notes</b>	Optimal dilution of this antibody should be experimentally determined.





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### **Products Related to NB120-22858AFP680**

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H00003676-Q01-10ug	Recombinant Human Integrin alpha 4/CD49d GST (N-Term) Protein
210-TA-005	TNF-alpha [Unconjugated]
NBL1-12064	Integrin alpha 4/CD49d Overexpression Lysate
AF3628	CD31/PECAM-1 Antibody [Unconjugated]

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### **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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