# **Product Datasheet**

# Integrin alpha 4/CD49d Antibody (HP2/1) [PE] NB120-22858PE

Unit Size: 0.1 ml

Store at 4C in the dark.

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# NB120-22858PE

Integrin alpha 4/CD49d Antibody (HP2/1) [PE]

Unit Size Concentration Please see the vial label for concentration. If unlisted please contact technical services.  Storage Store at 4C in the dark. Clonality Monoclonal Clone HP2/1 Preservative 0.05% Sodium Azide Isotype IgG1 Conjugate PE Purity Protein A or G purified Buffer PBS  Product Description  Description This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet. Host Mouse Gene ID 3676 Gene ID 3676 Gene Symbol ITGA4 Species Human Reactivity Notes Cross-reacts with Rat, Rhesus Monkey, Bovine, Pig, Cynomolgus monkey, Goat, Rabbit, Llama, Horse, Mink, Mustelid, Cat 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 an be proteolytically cleaved to yield framents of 80 and 70kDa (Henlier 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 gul-associated lymphoid tissue (Sackstein 2006) through its interaction with MadCard—1, preferentially expressed on Peyer's patch high endothelial venules and postcapillary venules in lamina propria (Briskin et al. 1987), Mouse anti human CD49d, clone HP2/1 binds to both Nuouse and Human CD49d, clone HP2/2 binds to both Nuouse and Human CD49d, clone HP2/1 binds to both Nuouse and Human CD49d, clone HP2/1 binds to both Nuouse and Human CD49d, clone HP2/1 binds to both Nuouse and Human CD49d, clone HP2/1 binds to both Nuouse and Human CD49d, clone HP2/1 binds to both Nuouse and Human CD49d, clone HP2/1 binds to both Nuouse and 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 Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Imm	Product Information	
Storage Store at 4C in the dark.  Clonality Monoclonal  Clone HP2/1  Preservative 0.05% Sodium Azide  Isotype IgG1  Conjugate PE  Purity Protein A or G purified  Buffer PBS  Product Description  Description This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.  Host Mouse  Gene ID 3676  Gene Symbol ITGA4  Species Human  Reactivity Notes Cross-reacts with Rat, Rhesus Monkey, Bovine, Pig, Cynomolgus monkey, Goat, Rabbit, Llama, Horse, Mink, Mustelid, Cat  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 framents of 80 and 70kDa (Henler 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 sexpressed on Peyer's patch high endothelial venules and postcapillary venules in lamp 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 Peyer's patch high endothelial venules and paral-4. CD49d is expressed on Peyer's patch high endothelial venules and paral-4. CD49d is expressed on Peyer's patch high endothelial venules and paral-4. CD49d is expressed on 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, Immunohistochemistry, Immunohistochemistry-Frozen, Immuno	Unit Size	0.1 ml
Clone HP2/1 Preservative 0.05% Sodium Azide Isotype IgG1 Conjugate PE Purity Protein A or G purified Buffer PBS  Product Description Description This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.  Host Mouse Gene ID 3676 Gene Symbol ITGA4 Species Human Reactivity Notes Cross-reacts with Rat, Rhesus Monkey, Bovine, Pig, Cynomolgus monkey, Goat, Rabbit, Llama, Horse, Mink, Mustelid, Cat 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 wiseven FG-GAP repeats, characteristic of alpha integrins, in its extracellular domain. CD49d can be proteolytically cleaved to yield framents 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 hymphocyte 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 postcapilitary venules in laminar propria (Briskin et al. 1997). Mouse anti Human CD49d, clone HP2/1 to has ics 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, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation	Concentration	·
Clone HP2/1  Preservative 0.05% Sodium Azide  Isotype 1gG1  Conjugate PE  Purity Protein A or G purified  Buffer PBS  Product Description  Description This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.  Host Mouse  Gene ID 3676  Gene Symbol ITGA4  Species Human  Reactivity Notes Cross-reacts with Rat, Rhesus Monkey, Bovine, Pig, Cynomolgus monkey, Goat, Rabbit, Llama, Horse, Mink, Mustelid, Cat  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 extracellura domain. CD49d can be proteolytically cleaved to yield framents 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 expenses do n Peyer's patch high endothelial venules and postcapillary venules in lamina propria (Briskin et al. 1997). Mouse anti Human CD49d, clone HP2/1 into 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 Froduct Application Details  Applications Flow Cytometry, Immunohistochemistry, Immunopirecipitation,	Storage	Store at 4C in the dark.
Preservative   Q.0.5% Sodium Azide	Clonality	Monoclonal
IgG1	Clone	HP2/1
Conjugate PE Purity Protein A or G purified  Buffer PBS  Product Description  This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.  Host Mouse Gene ID 3676 Gene Symbol ITGA4  Species Human  Reactivity Notes Cross-reacts with Rat, Rhesus Monkey, Bovine, Pig, Cynomolgus monkey, Goat, Rabbit, Llama, Horse, Mink, Mustelid, Cat  Specifficity/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 framents 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 inmina 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 Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation  Flow Cytometry, Immunohistochemistry, Immunoprecipitation,	Preservative	0.05% Sodium Azide
Purity Protein A or G purified  Buffer PBS  Product Description  This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.  Host Mouse  Gene ID 3676  Gene Symbol ITGA4  Species Human  Reactivity Notes Cross-reacts with Rat, Rhesus Monkey, Bovine, Pig, Cynomolgus monkey, Goat, Rabbit, Llama, Horse, Mink, Mustelid, Cat  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 framents 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, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation,	Isotype	IgG1
PBS	Conjugate	PE
Product Description  This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.  Host  Mouse  Gene ID  3676  Gene Symbol  ITGA4  Species  Human  Reactivity Notes  Cross-reacts with Rat, Rhesus Monkey, Bovine, Pig, Cynomolgus monkey, Goat, Rabbit, Llama, Horse, Mink, Mustelid, Cat  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 varcellular domain. CD49d can be proteolytically cleaved to yield framents 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, hymocytes 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  Product Application Details  Applications  Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation	Purity	Protein A or G purified
This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.  Mouse  Gene ID  3676  Gene Symbol  ITGA4  Species  Human  Reactivity Notes  Cross-reacts with Rat, Rhesus Monkey, Bovine, Pig, Cynomolgus monkey, Goat, Rabbit, Llama, Horse, Mink, Mustelid, Cat  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 framents 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 to a be used in bacis 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  Product Application Details  Applications  Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation	Buffer	PBS
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Gene Symbol  TrGA4  Species  Human  Reactivity Notes  Cross-reacts with Rat, Rhesus Monkey, Bovine, Pig, Cynomolgus monkey, Goat, Rabbit, Llama, Horse, Mink, Mustelid, Cat  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 framents 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  Product Application Details  Applications  Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation  Flow Cytometry, Immunohistochemistry, Immunohistochemistry, Immunoprecipitation,	Description	volume of this product. The volume will be greater than or equal to the unit size
Species	Host	Mouse
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Rabbit, Llama, Horse, Mink, Mustelid, Čat  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 framents 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  Product Application Details  Applications  Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation  Flow Cytometry, Immunohistochemistry, Immunoprecipitation,	Species	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 framents 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  Product Application Details  Applications  Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation  Flow Cytometry, Immunohistochemistry, Immunoprecipitation,	Reactivity Notes	
Product Application Details  Applications  Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation  Recommended Dilutions  Flow Cytometry, Immunohistochemistry, Immunoprecipitation,	Specificity/Sensitivity	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 framents 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
Applications  Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation  Recommended Dilutions  Flow Cytometry, Immunohistochemistry, Immunoprecipitation,	Immunogen	JM leukaemia line
Immunoprecipitation  Recommended Dilutions Flow Cytometry, Immunohistochemistry, Immunoprecipitation,		
	Applications	
	Recommended Dilutions	
Application Notes Optimal dilution of this antibody should be experimentally determined.	Application Notes	Optimal dilution of this antibody should be experimentally determined.





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#### Products Related to NB120-22858PE

NBP1-97005PE Mouse IgG1 Isotype Control (MG1) [PE]

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

#### 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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