

Mouse anti-Human CD49d, clone HP2/1 (Monoclonal)

Clone no. HP2/1

MONOSAN

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Product name	Mouse anti-Human CD49d, clone HP2/1 (Monoclonal)
Host	Mouse
Applications	IHC-fr, FC, IP
Species reactivity	human, rat, monkey, bovine, pig, goat, rabbit, horse, rabbit
Conjugate	-
Immunogen	JM leukaemia line
Isotype	IgG1
Clonality	Monoclonal
Clone number	HP2/1
Size	0.2 mg
Concentration	IgG 1 mg/ml
Format	Purified
Storage buffer	PBS with <0.1% sodium azide
Storage until expiry date	aliquots -20°C. Thawed 2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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**Additional info**

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's patch-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).

**References**

1. Weller PF et al. PNAS 1991; 88: 7430-3
2. Peled A et al. Stem Cells 2002; 20: 259-66
3. Hyduk SJ et al. J Immunol 2011; 187: 4360-8
4. Uitterdijk A et al. PLoS One 2017; 12: e0178779
5. Lokugamage N et al. NPJ Vaccines 2021; 6: 114

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