

## ARG23083 anti-CD49d / LPAM1 / Integrin alpha 4 antibody [HP2/1]

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [HP2/1] recognizes CD49d / LPAM1 / Integrin alpha 4
Tested Reactivity	Hu, Rat, Bov, Cat, Goat, Hrs, Pig, R. Mk, Rb
Tested Application	FACS, FuncSt, IHC-Fr, IP
Host	Mouse
Clonality	Monoclonal
Clone	HP2/1
Isotype	IgG1
Target Name	CD49d / LPAM1 / Integrin alpha 4
Species	Human
Immunogen	JM leukaemia line.
Conjugation	Un-conjugated
Alternate Names	CD49 antigen-like family member D; VLA-4 subunit alpha; CD49D; Integrin alpha-IV; CD antigen CD49d; Integrin alpha-4; IA4

### Application Instructions

Application table	Application	Dilution
	FACS	1 µg/5 x 10 <sup>5</sup> cells
	FuncSt	Assay-dependent
	IHC-Fr	Assay-dependent
	IP	Assay-dependent
Application Note	<p>Functional study: This product contains sodium azide, removal by dialysis is recommended prior to use in functional assays.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>	

### Properties

Form	Liquid
Purification	Purified
Buffer	PBS and 0.09% Sodium azide
Preservative	0.09% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

**Note** For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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Gene Symbol	ITGA4
Gene Full Name	integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor)
Background	The product of this gene belongs to the integrin alpha chain family of proteins. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This gene encodes an alpha 4 chain. Unlike other integrin alpha chains, alpha 4 neither contains an I-domain, nor undergoes disulfide-linked cleavage. Alpha 4 chain associates with either beta 1 chain or beta 7 chain. [provided by RefSeq, Jul 2008]
Function	Integrins alpha-4/beta-1 (VLA-4) and alpha-4/beta-7 are receptors for fibronectin. They recognize one or more domains within the alternatively spliced CS-1 and CS-5 regions of fibronectin. They are also receptors for VCAM1. Integrin alpha-4/beta-1 recognizes the sequence Q-I-D-S in VCAM1. Integrin alpha-4/beta-7 is also a receptor for MADCAM1. It recognizes the sequence L-D-T in MADCAM1. On activated endothelial cells integrin VLA-4 triggers homotypic aggregation for most VLA-4-positive leukocyte cell lines. It may also participate in cytolytic T-cell interactions with target cells. [UniProt]
Calculated Mw	115 kDa
PTM	Phosphorylation on Ser-1027 inhibits PXN binding.