

# Product Datasheet

## Integrin alpha 4/CD49d Antibody (MRalpha4-1) NBP1-28812

Unit Size: 0.5 mg

Store at -20C. Avoid freeze-thaw cycles.

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**NBP1-28812**

Integrin alpha 4/CD49d Antibody (MRalpha4-1)

Product Information	
Unit Size	0.5 mg
Concentration	1.0 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	MRalpha4-1
Preservative	No Preservative
Isotype	IgG2a
Purity	Protein G purified
Buffer	PBS

Product Description	
Host	Mouse
Gene ID	3676
Gene Symbol	ITGA4
Species	Rat
Reactivity Notes	Rat.
Specificity/Sensitivity	NBP1-28812 specifically recognises rat CD49d, otherwise known as integrin alpha 4 chain/VLA-4, a 150kDa type-1 transmembrane glycoprotein and member of the integrin alpha chain family, which acts as a receptor for fibronectin and CD106 (VCAM-1).
Immunogen	RBL-2H3 rat basophilic leukaemia cell line.
Notes	This is a low endotoxin product. Endotoxin level <0.01EU/ug

Product Application Details	
Applications	Flow Cytometry, Functional, Immunoprecipitation
Recommended Dilutions	Flow Cytometry 1:10-1:100, Immunoprecipitation, Functional
Application Notes	Clone MRalpha4-1 inhibits the in vitro and in vivo functions of CD49d. Studies have shown that in rat Peyer's patches, clone MRalpha4-1 inhibits the rolling and adherence of lymphocytes to postcapillary venules (PCV), and significantly inhibits the transendothelial migration of T lymphocytes. For Flow Cytometry: Use 10 ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100 ul.

**Publications**

Tsuzuki, Y et al. Alpha4 integrin plays a critical role in early stages of T lymphocyte migration in Peyer's patches of rats. *Int Immunol* 8: 287-295. [PMID: 8671614]

Yasuda, M et al. Expression and function of fibronectin binding integrins on rat mast cells. *Int Immunol* 7: 251-258. [PMID: 7734420]





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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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