



Anti-ITGA4 monoclonal antibody, clone PS/2 [R-PE] (CABT-46345RM)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Rat anti Mouse CD49d monoclonal antibody, clone PS/2 recognizes murine alpha 4 integrin (CD49d), a ~150kDa single pass type I membrane glycoprotein that can associate with either beta 1 integrin (CD29) or beta 7 integrin to form heterodimers CD49d/CD29 (VLA-4) and alpha4/beta7 (LPAM-1) respectively. CD49d is expressed on most lymphocytes, granulocytes, monocytes and thymocytes. The primary ligands for CD49d are CD106 (VCAM-1), fibronectin and MAdCAM-1. Clone PS/2 has also been reported to block the binding of CD49d to its ligands. Flow Cytometry Use 10ul of the suggested working dilution to label 106 cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors.

Specificity	ITGA4
Isotype	IgG2b
Source/Host	Rat
Species Reactivity	Mouse, Human
Clone	PS/2
Conjugate	PE
Applications	FC
Format	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised
Size	100 tests
Preservative	0.09% Sodium Azide
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is

photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	Itga4 integrin alpha 4 [Mus musculus (house mouse)]
Official Symbol	ITGA4
Synonyms	ITGA4; integrin alpha 4; CD49D; Itga4B; integrin alpha-4; integrin alpha4B; integrin alpha-IV; LPAM subunit alpha; VLA-4 subunit alpha; VLA-4 receptor, alpha 4 subunit; CD49 antigen-like family member D; lymphocyte Peyer patch adhesion molecules subunit a
Entrez Gene ID	16401
Protein Refseq	NP_034706
UniProt ID	Q00651
Chromosome Location	2 C3; 2 47.38 cM
Pathway	Adaptive Immune System; Arrhythmogenic right ventricular cardiomyopathy (ARVC); Cell adhesion molecules (CAMs); Cell surface interactions at the vascular wall; Dilated cardiomyopathy; ECM-receptor interaction; Extracellular matrix organization; Focal Adhesion;
Function	cell adhesion molecule binding; fibronectin binding; metal ion binding;