



Anti-ITGA4 monoclonal antibody, clone 44H6 [R-PE] (CABT-46329MH)

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

PRODUCT INFORMATION

Product Overview

Mouse anti Human CD49d monoclonal antibody, clone 44H6 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. 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 through its interaction with MadCam-1, preferentially expressed on Peyer's patch high endothelial venules and postcapillary venules in lamina propria. Mouse anti human CD49d, clone 44H6 is reported to induce homotypic aggregation of pre-B cell lines including HOON and NALM-6. Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells or 100ul whole blood

Specificity	ITGA4
Immunogen	HOON pre-B leukaemia cell line.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	44H6
Conjugate	PE
Applications	FC
Format	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised

Size	100 tests
Preservative	0.09% Sodium Azide
Storage	Prior to reconstitution store at +4°C. Following reconstitution 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 (antigen CD49D, alpha 4 subunit of VLA-4 receptor) [Homo sapiens (human)]
Official Symbol	ITGA4
Synonyms	ITGA4; integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor); IA4; CD49D; integrin alpha-4; 269C wild type; integrin alpha 4; integrin alpha-IV; VLA-4 subunit alpha; integrin alpha-4 subunit; CD49 antigen-like family member D; antigen CD49D
Entrez Gene ID	3676
Protein Refseq	NP_000876
UniProt ID	P13612
Chromosome Location	2q31.3
Pathway	Adaptive Immune System; Arrhythmogenic right ventricular cardiomyopathy; Arrhythmogenic right ventricular cardiomyopathy (ARVC); Cell adhesion molecules (CAMs); Cell surface interactions at the vascular wall; Dilated cardiomyopathy; ECM-receptor interaction; Extracellular matrix organization;
Function	cell adhesion molecule binding; fibronectin binding; metal ion binding; protein binding;