

Product datasheet for TA420126

ITGA4 Mouse Monoclonal Antibody [Clone ID: Bu49]

Product data:

Product Type:	Primary Antibodies
Clone Name:	BU49
Applications:	FC, IHC, IP
Reactivity:	Dog
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Hyatt myeloma cell line.
Specificity:	CD49d
Formulation:	Phosphate buffered saline containing 0.09% Sodium Azide (NaN ₃) Label: ALEXA FLUOR [®] 647, FITC, Low Endotoxin, Preservative Free, Purified, RPE State: Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant Purified IgG - liquid
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	+4°C, -20°C if preferred
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin subunit alpha 4
Database Link:	P13612



Background:

Mouse anti Human CD49d monoclonal antibody, clone Bu49 recognizes human CD49d, also known as integrin alpha 4 or VLA-4 alpha subunit. CD49d is a ~150 kDa single pass type I transmembrane glycoprotein. CD49d can be proteolytically cleaved to yield fragments of ~80 and ~70 kDa (Hemler et al. 1987). CD49d associates with either CD29 to form VLA-4 or with Integrin beta-7 to form The Peyer's patches-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). CD49d is expressed on a broad range of cells including lymphocytes, monocytes, eosinophils and thymocytes. CD49d expression may serve as a prognostic marker of survival and disease progression in patients with chronic lymphocytic leukemia and may have therapeutic potential (Bulian et al. 2008). Mouse anti human CD49, clone Bu49 cross-reacts with the canine B-cell leukemia cell line GL-1 and induces homotypic cell aggregation (Ikewaki et al. 2010).

Synonyms:

INTEGRIN ALPHA 4 CHAIN, VLA-4