

ARG21285 anti-CD49b / Integrin alpha 2 antibody [HAS-4] (FITC)

Package: 50 tests

Store at: 4°C

Summary

Product Description	FITC-conjugated Mouse Monoclonal antibody [HAS-4] recognizes CD49b / Integrin alpha 2
Tested Reactivity	Hu
Tested Application	BL, FACS, ICC/IF, IHC-Fr
Specificity	Human CD49b.
Host	Mouse
Clonality	Monoclonal
Clone	HAS-4
Isotype	IgG2a, kappa
Target Name	CD49b / Integrin alpha 2
Species	Human
Immunogen	Human keratinocytes
Conjugation	FITC
Alternate Names	Collagen receptor; VLA-2 subunit alpha; HPA-5; CD49B; CD49 antigen-like family member B; GPIa; VLA-2; CD antigen CD49b; BR; VLAA2; Platelet membrane glycoprotein Ia; Integrin alpha-2

Application Instructions

Application table	Application	Dilution
	BL	Assay-dependent
	FACS	10 µl/10 ⁶ cells
	ICC/IF	Assay-dependent
	IHC-Fr	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Buffer	PBS and 0.1% Sodium azide.
Preservative	0.1% Sodium azide
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. 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

Database links

[GeneID: 3673 Human](#)

[Swiss-port # P17301 Human](#)

Gene Symbol

ITGA2

Gene Full Name

integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)

Background

This gene encodes the alpha subunit of a transmembrane receptor for collagens and related proteins. The encoded protein forms a heterodimer with a beta subunit and mediates the adhesion of platelets and other cell types to the extracellular matrix. Loss of the encoded protein is associated with bleeding disorder platelet-type 9. Antibodies against this protein are found in several immune disorders, including neonatal alloimmune thrombocytopenia. This gene is located adjacent to a related alpha subunit gene. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]

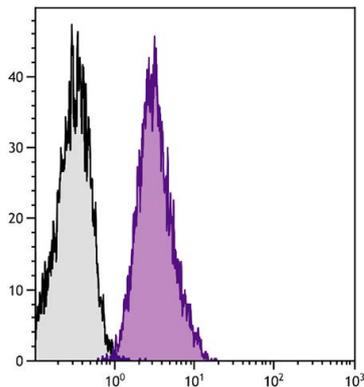
Function

Integrin alpha-2/beta-1 is a receptor for laminin, collagen, collagen C-propeptides, fibronectin and E-cadherin. It recognizes the proline-hydroxylated sequence G-F-P-G-E-R in collagen. It is responsible for adhesion of platelets and other cells to collagens, modulation of collagen and collagenase gene expression, force generation and organization of newly synthesized extracellular matrix. [UniProt]

Calculated Mw

129 kDa

Images



ARG21285 anti-CD49b / Integrin alpha 2 antibody [HAS-4] (FITC)
FACS image

Flow Cytometry: Human peripheral blood platelets stained with
ARG21285 anti-CD49b / Integrin alpha 2 antibody [HAS-4] (FITC).