ARG21027
anti-CD49b / Integrin alpha 2 antibody [DX5] (FITC)

Package: 100 µg
Store at: 4°C

Summary

Product Description	FITC-conjugated Rat Monoclonal antibody [DX5] recognizes CD49b / Integrin alpha 2
Tested Reactivity	Ms
Tested Application	FACS, IHC-Fr, IHC-P
Specificity	The clone DX5 reacts with CD49b, also known as very late antigen-2 (VLA-2) and α2 integrin. The antibody stains the majority of NK cells and a small subpopulation of T cells in all mouse strains tested (e.g., A/J, AKR, BALB/c, C3H/HeJ, C57BL/6, C57BL/10, C57BR, C58, CBA/Ca, CBA/J, DBA/1, DBA/2, SJL, SWR). The clone DX5 has not been demonstrated to have activating or blocking activity.
Host	Rat
Clonality	Monoclonal
Clone	DX5
Isotype	IgM, kappa
Target Name	CD49b / Integrin alpha 2
Species	Mouse
Immunogen	NK cells isolated from C57BL/6 mice
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
FACS	< 1 µg/10^6 cells
IHC-Fr	Assay-dependent
IHC-P	Assay-dependent

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

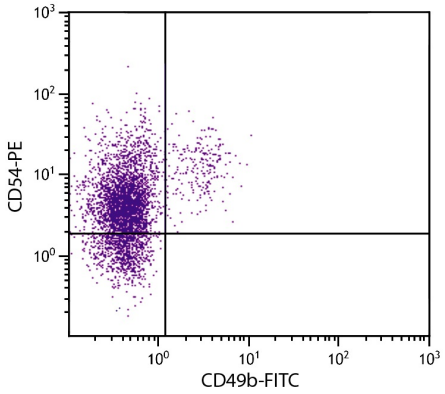
Form	Liquid
Buffer	PBS and 0.1% Sodium azide.
Preservative	0.1% Sodium azide
Concentration	0.5 mg/ml
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be

	gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

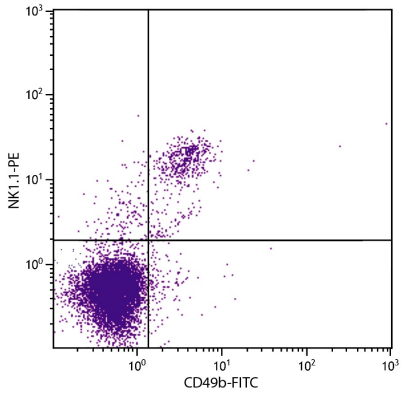
Database links	GeneID: 16398 Mouse Swiss-port # Q62469 Mouse
Gene Symbol	ITGA2
Gene Full Name	integrin alpha 2
Background	This gene encodes the alpha subunit of a transmembrane receptor for collagens and related proteins. The encoded protein forms a heterodimer with a beta subunit and mediates the adhesion 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



ARG21027 anti-CD49b / Integrin alpha 2 antibody [DX5] (FITC) FACS image

Flow Cytometry: C57BL/6 Mouse splenocytes stained with ARG20939 anti-CD54 / ICAM1 antibody [YN1/1.7.4] (PE) and ARG21027 anti-CD49b / Integrin alpha 2 antibody [DX5] (FITC).



ARG21027 anti-CD49b / Integrin alpha 2 antibody [DX5] (FITC) FACS image

Flow Cytometry: C57BL/6 Mouse splenocytes stained with ARG65527 anti-NK1.1 / CD161bc antibody [PK136] (PE) and ARG21027 anti-CD49b / Integrin alpha 2 antibody [DX5] (FITC).