Antibodies

Anti-Mouse CD49b Antibody, Clone DX5, FITC

Rat monoclonal IgM antibody against mouse CD49b (integrin α2), FITC-conjugated

Catalog #60020FI	500 µg	0.5 mg/mL
#60020FI.1	50 µg	0.5 mg/mL

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Product Description

The DX5 antibody reacts with murine CD49b (integrin α2), an ~150 kDa type 1 transmembrane glycoprotein that associates non-covalently with CD29 (integrin β1) to form the heterodimeric CD49b/CD29 complex known as VLA-2, a receptor for extracellular matrix proteins such as collagen, E-cadherin, fibronectin and laminin. CD49b is highly expressed by platelets and is found on a majority of NK cells, on NKT cells, and on a small subset of CD8+ T cells; the latter population increases substantially following viral infection. CD49b is also expressed by several tissues, including intestine, kidney, mammary gland and lung. The DX5 antibody is particularly useful for identifying NK cells in mice lacking the NK1.1 antigen. Binding of the DX5 antibody has not been observed to affect the function of the VLA-2 integrin. DX5 binding is, however, blocked by the clone HMα2 antibody.

Target Antigen Name:	CD49b (Integrin α2)
Alternative Names:	α2 integrin, Integrin α2 chain, VLA-2α chain
Gene ID:	16398
Species Reactivity:	Mouse
Host Species:	Rat (LEW)
Clonality:	Monoclonal
Clone:	DX5
Isotype:	IgM, kappa
Immunogen:	IL-2-propagated NK1.1+ cells from C57BL/6 mice
Conjugate:	FITC

Applications

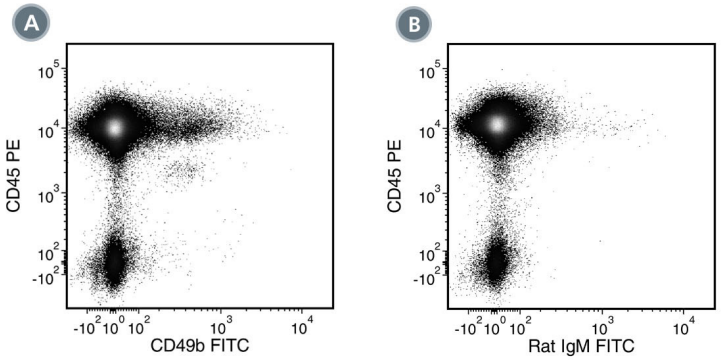
Verified:	FC
Reported:	FC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ Mouse NK Cell Enrichment Kit (Catalog #19755).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; WB: Western blotting

Properties

Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Purification:	The antibody was purified by affinity chromatography and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use:	For flow cytometry the suggested use of this antibody is ≤ 1 µg per 1 x 10e6 cells in 100 µL volume. It is recommended that the antibody be titrated for optimal performance for each application.

Data



(A) Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Anti-Mouse CD49b Antibody, Clone DX5, FITC and Anti-Mouse CD45 Antibody, Clone 30-F11, PE (Catalog #60030PE)
(B) Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with a rat IgM, kappa FITC isotype control antibody and Anti-Mouse CD45 Antibody, Clone 30-F11, PE.

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

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