

Technical Data Sheet

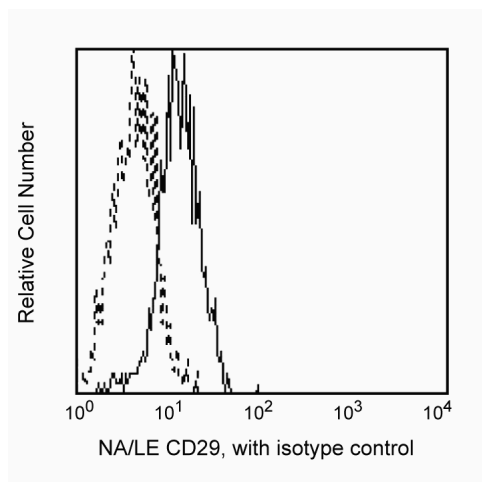
Purified NA/LE Mouse Anti-Human CD29

Product Information

Material Number:	556047
Alternate Name:	Integrin β 1 Chain
Size:	0.5 mg
Concentration:	1.0 mg/ml
Clone:	HUTS-21
Isotype:	Mouse IgG2a, κ
Reactivity:	QC Testing: Human
Storage Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2 μ m sterile filtered. Endotoxin level is \leq 0.01 EU/ μ g (\leq 0.001 ng/ μ g) of protein as determined by the LAL assay.

Description

Reacts with the 130 kDa integrin β 1 subunit, CD29, that is expressed following cell activation as a heterodimeric complex with one of nine distinct α subunits, comprising the very late activation antigen (VLA) subfamily of adhesion receptors. The HUTS-21 β 1 epitope is weakly expressed on resting lymphocytes, but is upregulated by TPA, Ca⁺⁺ ionophore, or another CD29 antibody, TS2/16. This upregulation is Mn⁺⁺ dependent and not supported by other divalent cations such as Ca⁺⁺ and/or Mg⁺⁺. The VLA receptors have a broad cellular distribution and interact with ligands like VCAM-1 and MAdCAM-1 during cell adhesion. They also interact with extra-cellular matrices including collagen, laminin, fibronectin and others. HUTS-21 antibody enhances adherence of TPA-activated lymphocytes to fibronectin.



Profile of MOLT-4 cells (in presence of Mn⁺⁺) analyzed by flow cytometry

Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Application

Flow cytometry

Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
554645	Purified NA/LE Mouse IgG2a, κ Isotype Control	0.5 mg	G155-178
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

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