Datasheet for ABIN2689111

anti-2B4 antibody

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Overview

Quantity:	0.1 mg
Target:	2B4 (CD244)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This 2B4 antibody is un-conjugated
Application:	Flow Cytometry (FACS)

Product Details

Brand:	BD Pharmingen™
Clone:	2
Isotype:	IgG2a kappa
Characteristics:	Reacts with a 66 kDa single chain transmembrane glycoprotein. 2B4 belong to the immunoglobulin superfamily of proteins and is structurally related to CD2-like molecules. It was originally identified in the mouse as a non-MHC-restricted cytotoxicity mediator present on NK cells and CD8+ T cells. In humans, 2B4 is expressed on NK cells, CD8+ T cells, monocytes and basophils, suggesting a broader role for 2B4 in leukocyte activation and possibly a role of immunomodulation in other receptor-ligand interactions to enhance leukocyte activation. 2B4 has been clustered as CD244 in the VIIth HLDA workshop. This antibody is routinely tested by flow cytometric analysis. Other applications were tested during antibody development only or reported in the literature. Profile of CD244 (2-69) reactivity on peripheral blood lymphocytes analyzed by flow cytometry. Second step staining with Cat. No. 555988.

Product Details

	BD Pharmingen™ Purified Mouse Anti-Human CD244 - Purified - Clone 2-69 - Isotype Mouse IgG2a, κ - Reactivity Hu - 0.1 mg
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	2B4 (CD244)
Alternative Name:	CD244 (CD244 Products)
Background:	Synonyms: 2B4

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store undiluted at 4°C.

Publications

Product cited in:	Sivori, Parolini, Falco, Marcenaro, Biassoni, Bottino, Moretta, Moretta: "2B4 functions as a co-receptor in human NK cell activation." in: **European journal of immunology**, Vol. 30, Issue 3, pp. 787-93, (2000) (PubMed). Nakajima, Cella, Langen, Friedlein, Colonna: "Activating interactions in human NK cell recognition: the role of 2B4-CD48." in: **European journal of immunology**, Vol. 29, Issue 5, pp.

1676-83, (1999) (PubMed).

Tangye, Lazetic, Woollatt, Sutherland, Lanier, Phillips: "Cutting edge: human 2B4, an activating NK cell receptor, recruits the protein tyrosine phosphatase SHP-2 and the adaptor signaling protein SAP." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 162, Issue 12, pp. 6981-5, (1999) (PubMed).

Mathew, Garni-Wagner, Land, Takashima, Stoneman, Bennett, Kumar: "Cloning and characterization of the 2B4 gene encoding a molecule associated with non-MHC-restricted killing mediated by activated natural killer cells and T cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 151, Issue 10, pp. 5328-37, (1993) (PubMed).