

Datasheet for ABIN2689112
anti-2B4 antibody



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Overview

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

Product Details

Brand:	BD Pharmingen™
Immunogen:	Mouse MHC-unrestricted killer hybridoma 7D4
Clone:	C9-1
Isotype:	IgG2b kappa
Characteristics:	CD244 (also known as 2B4 Antigen) is a member of the CD2 subset of the immunoglobulin superfamily (CD2 IgSF). ^{3,4,5} It is expressed on all natural killer (NK) cells, IL-2-activated NK cells (LAK), and a subset of T lymphocytes which mediate non-MHC-restricted cytotoxicity. The C9.1 antibody reacts with CD244.1, the 2B4 alloantigen which is expressed in most strains tested (A/J, AKR/N, BALB/c, CBA/N, C3H/He, DBA/1, DBA/2, NZB/N, SJL/J, 129/Svj), but not C57BL/6 or C58/J mice. The expression of the CD244.1 alloantigen on B lymphocytes that was originally described, has not been confirmed in later studies. The extracellular domain of CD244 is a ligand for another CD2 IgSF member, CD48. Two-color analysis of CD244.1 expression on

Product Details

splenic NK cells. BALB/c splenocytes were stained with either purified rat IgG2b, κ isotype control mAb A95-1 (Cat. No. 553986, left panel) or purified mAb C9.1 (right panel), followed by FITC-conjugated anti-rat IgG2b mAb RG7/11.1 (Cat. No. 553900) then PE-conjugated anti-mouse CD49b/Pan-NK Cells mAb DX5 (Cat. No. 553858). Flow cytometry was performed on a BD FACSCalibur™ flow cytometry system.

BD Pharmingen™ Purified Rat Anti-Mouse CD244.1 - Purified - Clone C9.1 - Isotype Rat IgG2b, κ - Reactivity Ms - 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: CD244.1 ([CD244 Products](#))

Background: Synonyms: 2B4 BALB Alloantigen

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: Kumaresan, Huynh, Mathew: "Polymorphism in the 2B4 gene of inbred mouse strains." in:

Immunogenetics, Vol. 51, Issue 8-9, pp. 758-61, (2000) ([PubMed](#)).

Kubota, Katoh, Muguruma, Koyama: "Characterization of a surface membrane molecule expressed by natural killer cells in most inbred mouse strains: monoclonal antibody C9.1 identifies an allelic form of the 2B4 antigen." in: **Immunology**, Vol. 96, Issue 3, pp. 491-7, (1999) ([PubMed](#)).

Brown, Boles, van der Merwe, Kumar, Mathew, Barclay: "2B4, the natural killer and T cell immunoglobulin superfamily surface protein, is a ligand for CD48." in: **The Journal of experimental medicine**, Vol. 188, Issue 11, pp. 2083-90, (1999) ([PubMed](#)).

Latchman, McKay, Reiser: "Identification of the 2B4 molecule as a counter-receptor for CD48." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 161, Issue 11, pp. 5809-12, (1998) ([PubMed](#)).

Kubota: "A killer cell protective antigen expressed by MHC-unrestricted killer hybridomas." in: **Cellular immunology**, Vol. 181, Issue 1, pp. 50-8, (1997) ([PubMed](#)).

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