

Datasheet for ABIN2689113

anti-2B4 antibody

13 Publications

[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	2B4 (CD244)
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This 2B4 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Brand:	BD Pharmingen™
Immunogen:	rIL-2-propagated NK1.1+ cells from C57BL/6 mice
Clone:	2B4
Isotype:	IgG2b kappa
Characteristics:	CD244 is a member of the CD2 subset of the immunoglobulin superfamily (CD2 IgSF). It is expressed on all natural killer (NK) cells, IL-2-activated NK (LAK) cells, committed progenitors of NK cells, and a subset of T lymphocytes which mediate non-MHC-restricted cytotoxicity, including dendritic epidermal T cells. The 2B4 antibody reacts with CD244.2, the 2B4 alloantigen which is expressed on C57BL/6 and C58/J mice, but not in most strains tested (A/J, AKR, BALB/c, CBA/J, CBA/N, C3H/He, C57BR, DBA/1, DBA/2, NZB, SJL/J, 129). At least two isoforms of CD244.2 protein, products of alternative splicing of hnRNA, are expressed on IL-2-

Product Details

activated C57BL/6 NK cells. They differ only in their cytoplasmic domains, with 2B4L (150-aa cytoplasmic tail) having inhibitory activity and 2B4S (93-aa tail) being stimulatory. The extracellular domain of CD244 is a ligand for another CD2 IgSF member, CD48. 2B4 antibody activates lytic and secretory functions of IL-2-cultured NK cells and CD244.2+ T cells. Two-color analysis of CD244.2 expression on LAK cells. C57BL/6 LAK cells were simultaneously stained with PE-conjugated PK136 (anti-mouse NK-1.1, Cat. No. 557391/553165, both panels) and purified 2B4 (right panel) monoclonal antibodies, followed by FITC-conjugated anti-mouse IgG2b mAb R12-3 (Cat. No. 553395, both panels). Flow cytometry was performed on a BD FACScan™ System .

BD Pharmingen™ Purified Mouse Anti-Mouse CD244.2 - Purified - Clone 2B4 - Isotype Mouse IgG2b, κ - Reactivity Ms - 0.1 mg

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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Target Details

Target:	2B4 (CD244)
Alternative Name:	CD244.2 (CD244 Products)
Background:	Synonyms: 2B4 B6 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

Handling

Storage Comment: Store undiluted at 4°C.

Publications

Product cited in: Revathikumar, Estelius, Karmakar, Le Maître, Korotkova, Jakobsson, Lampa: "Microsomal prostaglandin E synthase-1 gene deletion impairs neuro-immune circuitry of the cholinergic anti-inflammatory pathway in endotoxaemic mouse spleen." in: **PLoS ONE**, Vol. 13, Issue 2, pp. e0193210, (2018) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)