

Datasheet for ABIN2689290
anti-CD45RB antibody (Biotin)



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Overview

Quantity:	0.1 mg
Target:	CD45RB
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This CD45RB antibody is conjugated to Biotin
Application:	Flow Cytometry (FACS), Immunofluorescence (IF)

Product Details

Brand:	BD Pharmingen™
Clone:	16A
Isotype:	IgG2a kappa
Characteristics:	The 16A antibody reacts with an exon B-dependent epitope of CD45 lycoprotein, which is found at high density on peripheral B cells, T cytotoxic/suppressor cells, subset of T helper cells, and most thymocytes and at low density on macrophages and dendritic cells. The level of CD45RB expression appears to decrease as T lymphocytes progress from naive to memory cells. In addition, subpopulations of CD4+ T cells which express high and low levels of D45RB have different cytokine secretion profiles and mediate distinct immunological functions. CD25+ D4+ regulatory T (Treg) lymphocytes which control intestinal inflammation and autoimmunity express low levels of D45RB. CD45 is a member of the Protein Tyrosine Phosphatase (PTP) family: Its intracellular (COOH-terminal) region contains two PTP catalytic domains, and the extracellular region is highly variable due to alternative splicing of exons (designated A, B, and C,

Product Details

respectively), plus differing levels of glycosylation. The CD45 isoforms detected in the mouse are cell type-, maturation-, and activation state-specific. The CD45 isoforms play complex roles in T-cell and B-cell antigen receptor signal transduction. This antibody is routinely tested by flow cytometric analysis. Other applications were tested during antibody development only or reported in the literature.

BD Pharmingen™ Biotin Rat Anti-Mouse CD45RB - Biotin - Clone 16A - Isotype Rat IgG2a, 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:	CD45RB
Alternative Name:	CD45RB (CD45RB Products)

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.
Handling Advice:	The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.
Storage:	4 °C
Storage Comment:	Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

- Product cited in: Read, Malmström, Powrie: "Cytotoxic T lymphocyte-associated antigen 4 plays an essential role in the function of CD25(+)CD4(+) regulatory cells that control intestinal inflammation." in: **The Journal of experimental medicine**, Vol. 192, Issue 2, pp. 295-302, (2000) ([PubMed](#)).
- Ernst, Weigle, Noonan, McQuitty, Hobbs: "The age-associated increase in IFN-gamma synthesis by mouse CD8+ T cells correlates with shifts in the frequencies of cell subsets defined by membrane CD44, CD45RB, 3G11, and MEL-14 expression." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 151, Issue 2, pp. 575-87, (1993) ([PubMed](#)).
- Inoue, Asano, Matsuoka, Furutani-Seiki, Aizawa, Nishimura, Shirai, Tada: "Distinction of mouse CD8+ suppressor effector T cell clones from cytotoxic T cell clones by cytokine production and CD45 isoforms." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 150, Issue 6, pp. 2121-8, (1993) ([PubMed](#)).
- Rogers, Pilapil, Hayakawa, Romain, Parker: "CD45 alternative exon expression in murine and human CD4+ T cell subsets." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 148, Issue 12, pp. 4054-65, (1992) ([PubMed](#)).
- Hathcock, Laszlo, Dickler, Sharrow, Johnson, Trowbridge, Hodes: "Expression of variable exon A-, B-, and C-specific CD45 determinants on peripheral and thymic T cell populations." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 148, Issue 1, pp. 19-28, (1992) ([PubMed](#)).
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