Technical Data Sheet

FITC Rat Anti-Mouse CD45RB

Product Information

553099 **Material Number:** 0.1 mg 0.5 mg/ml **Concentration:** 16A Clone:

Cloned Mouse TH2 cell lines Immunogen:

Rat IgG2a, κ Isotype: QC Testing: Mouse Reactivity:

Aqueous buffered solution containing ≤0.09% sodium azide. Storage Buffer:

Description

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 ytokine 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, 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 at BD Biosciences Pharmingen during antibody development only or reported in the literature.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.

Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested		

Suggested Companion Products

Catalog Number	Name	Size	Clone
553929	FITC Rat IgG2a K Isotyne Control	0.25 mg	R35-95

Product Notices

- 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

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