Technical Data Sheet

FITC Rat Anti-Mouse Vα 11.1, 11.2[b,d] TCR

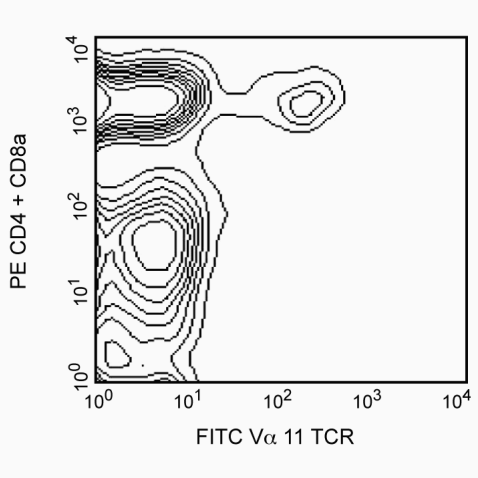
Product Information

Material Number:	**553222**
Size:	0.25 mg
Concentration:	0.5 mg/ml
Clone:	RR8-1
Immunogen:	Mouse T-Cell Clone B10
Isotype:	Rat IgG2b, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The RR8-1 antibody reacts with the Vα 11.1 and Vα 11.2, but not Vα 11.3 T-cell Receptors (TCR) of mice having the *b* (e.g., C57BL) and *d* (e.g., DBA/1, DBA/2, NZW) haplotypes of *Tcra* gene complex. RR8-1 antibody does not react with strains having the *a* (e.g., A, AKR, BALB/c, CBA, C3H/He) or *c* (e.g., NZB, SJL, SWR, NOD) *Tcra* haplotypes. Plate-bound RR8-1 antibody activates Vα 11.1, 11.2[b,d] TCR-bearing T lymphocytes.

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.



Two-color analysis of the expression of Vα 11.1, 11.2[b,d] TCR on peripheral lymphocytes. *C57BL/6 lymph node cells were incubated simultaneously with FITC-conjugated RR8-1, PE-conjugated RM4-5 (anti-CD4, Cat. No. 553048/553049), and PE-conjugated 53-6.7 (anti-CD8a, Cat. No. 553032/553033) monoclonal antibodies. Flow cytometry was performed on a FACScan™ (BDIS, San Jose, CA).*

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

Recommended Assay Procedure:

For flow cytometry of cell suspensions from peripheral lymphoid tissues, it is recommended that multicolor staining be performed to distinguish T lymphocytes from non-T cells.

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Suggested Companion Products

Catalog Number	Name	Size	Clone
553048	PE Rat Anti-Mouse CD4	0.1 mg	RM4-5
553032	PE Rat Anti-Mouse CD8a	0.1 mg	53-6.7
553988	FITC Rat IgG2b, κ Isotype Control	0.25 mg	A95-1

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. 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

Jameson SC, Nakajima PB, Brooks JL, Heath W, Kanagawa O, Gascoigne NR. The T cell receptor V alpha 11 gene family. Analysis of allelic sequence polymorphism and demonstration of J alpha region-dependent recognition by allele-specific antibodies. *J Immunol.* 1991; 147(9):3185-3193.(Immunogen)