

Technical Data Sheet

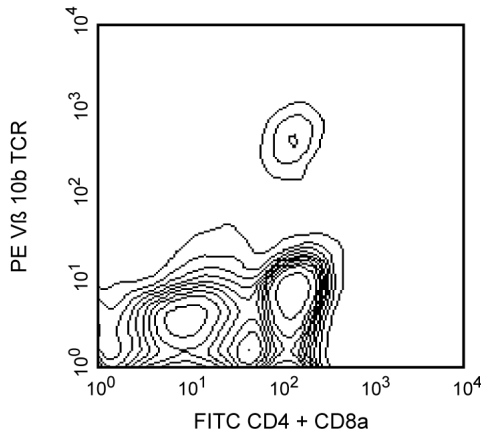
PE Rat Anti-Mouse Vβ 10[b] TCR

Product Information

Material Number:	553285
Size:	0.1 mg
Concentration:	0.2 mg/ml
Clone:	B21.5
Immunogen:	Mouse Cytotoxic T-Cell Clone Soluble αβ TCR
Isotype:	Rat (LOU) IgG2a, λ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The B21.5 antibody reacts with the Vβ 10 T-Cell Receptor (TCR) of mice having the *b* haplotype (e.g., A, AKR, BALB/c, CBA, C3H/He, C57BL, C58, DBA/1, DBA/2) of the *Tcrb* gene complex. It does not react with mice having the *a* (e.g., C57BR, C57L, SJL, SWR) or *c* (e.g., RIII) *Tcrb* haplotype.



Two-color analysis of the expression of Vβ 10[b] TCR on peripheral lymphocytes. C57BL/6 lymph node cells were incubated simultaneously with PE-conjugated B21.5, FITC-conjugated RM4-5 (anti-CD4, Cat. No. 553046/553047), and FITC-conjugated 53-6.7 (anti-CD8a, Cat. No. 553030/553031) 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 R-PE under optimum conditions, and unconjugated antibody and free PE were removed by gel filtration chromatography. Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested
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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. PE has been reported to bind mouse B cells via FcγII receptors. For immunostaining of mouse cells, this binding can be prevented by preincubating cells with Mouse FC Block™ (Cat. No. 553141/553142).

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Suggested Companion Products

Catalog Number	Name	Size	Clone
553046	FITC Rat Anti-Mouse CD4	0.1 mg	RM4-5
553030	FITC Rat Anti-Mouse CD8a	0.1 mg	53-6.7
553141	Purified Rat Anti-Mouse CD16/CD32 (Mouse BD Fc Block™)	0.1 mg	2.4G2
557076	PE Rat IgG2a, λ Isotype Control	0.1 mg	B39-4

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

Necker A, Rebai N, Matthes M, et al. Monoclonal antibodies raised against engineered soluble mouse T cell receptors and specific for V alpha 8-, V beta 2- or V beta 10-bearing T cells. *Eur J Immunol.* 1991; 21(12):3035-3040.(Immunogen)
Takizawa F, Kinet JP, Adamczewski M. Binding of phycoerythrin and its conjugates to murine low affinity receptors for immunoglobulin G. *J Immunol Methods.* 1993; 162(2):269-272.(Biology)