

Technical Data Sheet

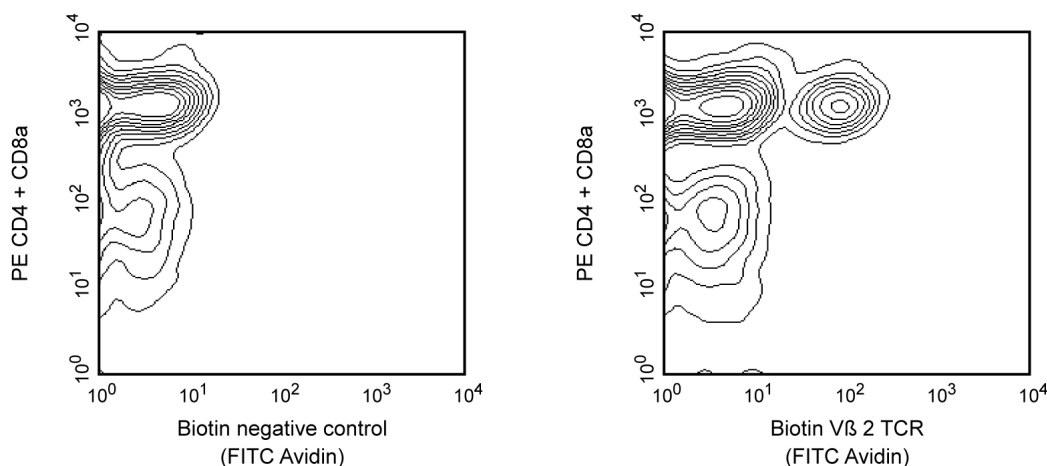
Biotin Rat Anti-Mouse V β 2 TCR**Product Information**

Material Number:	553279
Size:	0.25 mg
Concentration:	0.5 mg/ml
Clone:	B20.6
Immunogen:	Mouse Cytotoxic T-Cell Clone Soluble $\alpha\beta$ TCR
Isotype:	Rat (LOU) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The B20.6 antibody reacts with the V β 2 T-cell Receptor of all strains tested. V β 2 TCR-bearing T lymphocytes are clonally eliminated in mice expressing I-E and exposed neonatally to milk-borne BALB/cV virus, a highly tumorigenic strain of MMTV. Exposure of adult mice to BALB/cV virus results in expansion of V β 2 TCR-bearing T cells, which is partially dependent upon presentation by I-E.

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 V β 2 TCR on peripheral T lymphocytes. SJL lymph node cells were incubated simultaneously with biotinylated B20.6 (right panel), PE-conjugated RM4-5 (anti-mouse CD4, Cat. No. 553048/553049, both panels) monoclonal antibodies, followed by Avidin-FITC (Cat. No. 554057, both panels). 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 biotin under optimum conditions, and unreacted biotin 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
553928	Biotin Rat IgG2a κ Isotype Control	0.25 mg	R35-95
554060	FITC Streptavidin	0.5 mg	(none)

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

- Gregoire C, Rebai N, Schweisguth F, et al. Engineered secreted T-cell receptor alpha beta heterodimers. *Proc Natl Acad Sci U S A*. 1991; 88(18):8077-8081. (Clone-specific)
- Hodes RJ, Novick MB, Palmer LD, Knepper JE. Association of a V beta 2-specific superantigen with a tumorigenic milk-borne mouse mammary tumor virus. *J Immunol*. 1993; 150(4):1422-1428.(Biology)
- 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)

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