

Technical Data Sheet

PE Rat Anti-Mouse V β 2 TCR

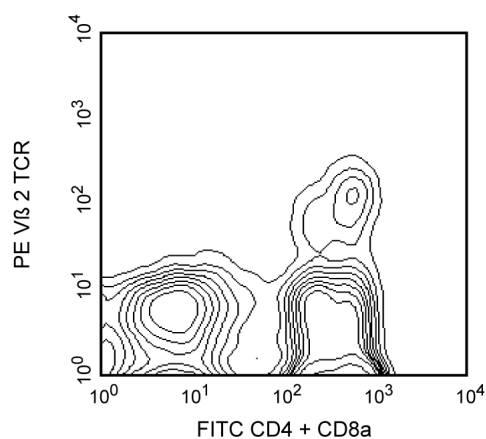
Product Information

Material Number:	553281
Size:	0.1 mg
Concentration:	0.2 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. C57BL/6 lymph node cells were incubated simultaneously with PE-conjugated B20.6, 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

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
553046	FITC Rat Anti-Mouse CD4	0.1 mg	RM4-5
553030	FITC Rat Anti-Mouse CD8a	0.1 mg	53-6.7
553930	PE Rat IgG2a, κ Isotype Control	0.1 mg	R35-95

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. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/pharmingen/colors.
4. 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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