

Technical Data Sheet

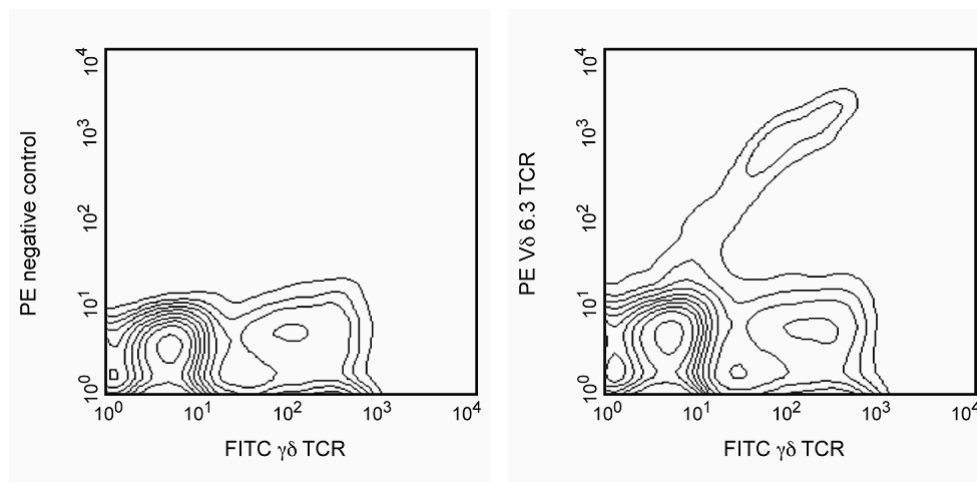
PE Hamster Anti-Mouse Vδ 6.3/2 TCR

Product Information

Material Number:	555321
Size:	0.1 mg
Concentration:	0.2 mg/ml
Clone:	8F4H7B7
Immunogen:	1E6.11.D7, a C57BL/6 mouse Vγ1.1Vδ6.3 TCR-bearing IEL/T-cell hybridoma
Isotype:	Armenian Hamster IgG2, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The 8F4H7B7 antibody reacts with Vδ 6.3/2 T-cell Receptor (TCR)-bearing T lymphocytes. Originally defined as a member of the Vδ 6 TCR subfamily, it is now proposed that the C57BL-derived Vδ 6.3 is an allelic variant of Vδ 6.2, found in A/J, AKR, BALB/c, C3H/He, and FVB mice. mAb 8F4H7B7 crossreacts with Vδ 6.4 and possibly Vδ 6.6 in DBA/2 mice, and it also detects a subset of γδ TCR-bearing cells in CBA/J and C57L mice. It does not recognize Vδ 4, Vδ 5, Vδ 6.1, or Vδ 6.5 TCR. A subpopulation of thymocytes expressing Vδ 6.3 or Vδ 6.4 TCR (in C57BL/6 or DBA/2 mice, respectively) and low levels of CD90.2 (Thy-1.2) shares functional and phenotypic characteristics with NK-T cells. Similar δV 6.4 TCR-expressing lymphocytes make up significant proportions of the γδ T-cell populations in the liver and spleen of DBA/2 mice. Furthermore, T lymphocytes bearing Vδ 6.3/2 TCR are found in the skin and intestinal epithelium and may represent a unique T-cell subpopulation with a potential for autoimmune reactivity.



Two-color analysis of Vδ 6.3 TCR expression on intestinal intraepithelial lymphocytes (IEL). C57BL/6 IEL were simultaneously stained with FITC-conjugated mAb GL3 (antimouse γδ TCR, Cat. no. 553177, both panels) and PE-conjugated mAb 8F4H7B7 (Right panel). Flow cytometry was performed on a BD FACScan™ Flow Cytometry System (BD Biosciences, 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.

Store undiluted at 4°C.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
553177	FITC Hamster Anti-Mouse γδ T-Cell Receptor	0.5 mg	GL3
550085	PE Hamster IgG2, κ Isotype Control	0.1 mg	B81-3

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.

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3. Although hamster immunoglobulin isotypes have not been well defined, BD Biosciences Pharmingen has grouped Armenian and Syrian hamster IgG monoclonal antibodies according to their reactivity with a panel of mouse anti-hamster IgG mAbs. A table of the hamster IgG groups, Reactivity of Mouse Anti-Hamster Ig mAbs, may be viewed at http://www.bdbiosciences.com/pharmingen/hamster_chart_11x17.pdf.
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

- Azuara V, Grigoriadou K, Lembezat MP, Nagler-Anderson C, Pereira P. Strain-specific TCR repertoire selection of IL-4-producing Thy-1 dull gamma delta thymocytes. *Eur J Immunol.* 2001; 31(1):205-214.(Immunogen)
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- Gerber DJ, Azuara V, Levraud JP, Huang SY, Lembezat MP, Pereira P. IL-4-producing gamma delta T cells that express a very restricted TCR repertoire are preferentially localized in liver and spleen. *J Immunol.* 1999; 163(6):3076-3082.(Biology)
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- Nagler-Anderson C, McNair LA, Cradock A. Self-reactive, T cell receptor-gamma delta+, lymphocytes from the intestinal epithelium of weanling mice. *J Immunol.* 1992; 149(7):2315-2322.(Biology)