Technical Data Sheet

# PE Hamster Anti-Mouse γδ T-Cell Receptor

## Product Information

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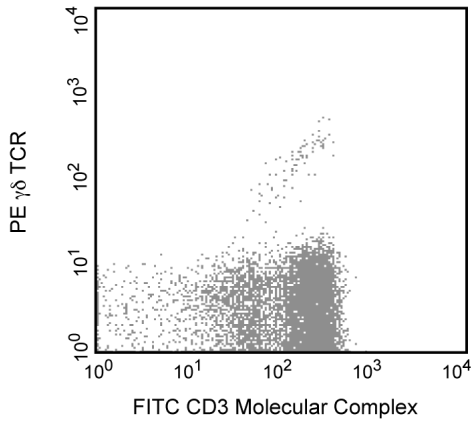
|---|---|
| **Material Number:** | **553178** |
| **Size:** | 0.1 mg |
| **Concentration:** | 0.2 mg/ml |
| **Clone:** | GL3 |
| **Immunogen:** | C57BL/6 Mouse Intestinal Intraepithelial Lymphocytes |
| **Isotype:** | Armenian Hamster IgG2, κ |
| **Reactivity:** | QC Testing: Mouse |
| **Storage Buffer:** | Aqueous buffered solution containing ≤0.09% sodium azide. |

## Description

The GL3 antibody reacts with a common epitope of the δ chain of the T-cell Receptor (TCR) complex on γδ TCR-expressing T lymphocytes and NK-T cells of all mouse strains tested. It does not react with αβ TCR-bearing T cells. In the mouse, cells expressing the γδ TCR are found in the thymus, intestinal epithelium, epidermis, dermis, pulmonsry epithelium, peritoneum, liver, and peripheral lymphoid organs.




***Two-color analysis of the expression of γδ TCR on peripheral T lymphocytes.*** *C3H/He lymph node cells were incubated simultaneously with PE-conjugated GL3 and FITC-conjugated anti-mouse CD3 Molecular Complex 17A2 (Cat. No. 555274) monoclonal antibodies. Flow cytometry was performed on a BD FACScan™ flow cytometry system.*

## Preparation and Storage

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

## Application Notes

**Application**

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| 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.

## Suggested Companion Products

| Catalog Number | Name | Size | Clone |
|---|---|---|---|
| 555274 | FITC Rat Anti-Mouse CD3 Molecular Complex | 0.5 mg | 17A2 |
| 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.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.

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4. 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.
5. 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


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Shinohara K, Ikarashi Y, Maruoka H, et al. Functional and phenotypical characteristics of hepatic NK-like T cells in NK1.1-positive and -negative mouse strains. *Eur J Immunol.* 1999; 29(6):1871-1878. (Biology: Flow cytometry)

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Tigelaar RE, Lewis JM, Bergstresser PR. TCR gamma/delta+ dendritic epidermal T cells as constituents of skin-associated lymphoid tissue. *J Invest Dermatol.* 1990; 94(6):58S-63S. (Biology: Flow cytometry)

Vicari AP, Mocci S, Openshaw P, O'Garra A, Zlotnik A. Mouse gamma delta TCR+NK1.1+ thymocytes specifically produce interleukin-4, are major histocompatibility complex class I independent, and are developmentally related to alpha beta TCR+NK1.1+ thymocytes. *Eur J Immunol.* 1996; 26(7):1424-1429. (Biology: Flow cytometry)