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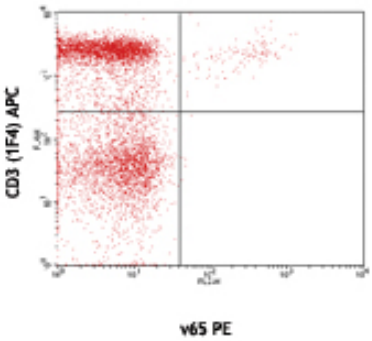
# Product Data Sheet

## PE anti-rat TCR γ/δ

**Catalog # / Size:** 202605 / 50 µg
**Clone:** V65
**Isotype:** Mouse IgG1, κ
**Reactivity:** Rat
**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody
**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
**Concentration:** 0.2 mg/ml
**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**




*LOU rat splenocytes stained with CD3 (1F4) APC and V65 PE*

## Applications:

**Applications:** FC - *Quality tested*
**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
**Application Notes:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. Additional reported applications (for the relevant formats) include: immunoprecipitation, immunohistochemical stainning of acetone-fixed frozen sections, *in vitro* stimulation and *in vivo* depletion.
**Application References:**
1. Kuhnlein P, *et al.* 1994. *J. Immunol.* 153:979.
2. Pelegri C, *et al.* 1996. *Arthritis Rheum.* 39(2):204.
3. Tsuchiya T, *et al.* 2002. *Amer. J. of Respir. and Crit. Care Med.* 165:1640.
4. Hoffman MH, *et al.* 2012. *Ann Rheum Dis.* PubMed.

**Description:** TCR γδ expression is observed on a subset of cells in the thymus, intestinal epithelium, skin, liver, peripheral lymphoid tissues, and peritoneum. The TCR γδ is involved in the antigen recognition of some bacterial or tumor-associated antigens presented by MHC class I. Immobilized V65 antibody has been reported to activate TCR-γδ -bearing T cells *in vitro*, and to deplete peripheral TCR-γδ -bearing T cells *in vivo* .
**Antigen References:**
1. Allison TJ, *et al.* 2001. *Nature* 411:820.
2. Chien YH, *et al.* 1996. *Ann. Rev. Immunol.*14:511.
3. Hiromatsu K, *et al.* 1992. *J. Exp. Med.* 175:49.
4. Bluestone JA, *et al.* 1991. *Immunol. Rev.* 120:5.

**Related Products:**

| Product | Clone | Application |
|---|---|---|
| PE Mouse IgG1, κ Isotype Ctrl | MOPC-21 | FC, ICFC |
| Cell Staining Buffer | | FC, ICC, ICFC |

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BioLegend Inc., 9727 Pacific Heights Blvd, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587