PE/Cy7 anti-mouse TCR γ/δ

Catalog # / Size: 1190615 / 25 μg

1190620 / 100 µg

Clone: GL3

Isotype: Hamster IgG

Immunogen: C57BL/6J intraepithelial lymphocytes

Reactivity: Mouse

Preparation: The antibody was purified by affinity

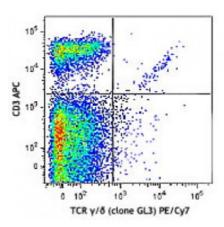
chromatography, and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7

and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

Concentration: 0.2



C57BL/6 mouse splenocytes were stained with CD3 APC and TCR γ/δ (clone GL3) PE/Cy7 (top) or Armenian hamster IgG PE/Cy7 isotype control (bottom).

Applications:

Applications: Flow Cytometry

Recommended

Usage:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes:

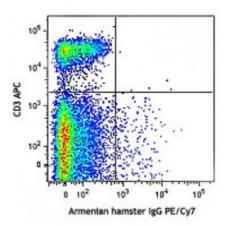
The GL3 antibody has been shown to be useful in identifying γ/δ T cells by flow cytometry and immunohistochemistry and depleting γ/δ T cells *in vivo*.

Additional reported applications (for the

relevant formats) include: immunoprecipitation1,

immunohistochemistry of acetone-fixed frozen sections^{2,6}, and *in vivo* depletion

of γ/δ T cells³⁻⁵.



Application References:

1. Goodman T, et al. 1989. J. Exp. Med. 170:1569. (FC, IP)

2. Cardona AE, et al. 2003. Infect. Immun. 71:2634. (IHC)

3. Kapp JA, et al. 2004. *Immunology* 111:155. (Deplete)

4. Skelsey ME, et al. 2001. J. Immunol. 166:4327. (Deplete)

5. Ke Y, et al. 1997. J. Immunol. 158:3610. (Deplete)

6. Podd BS, et al. 2006. J. Immunol. 176:6532. (IHC)

7. Kasten KR, et al. 2010. Infect. Immun. 78:4714. (FC) PubMed

8. Stadanlick JE, et al. 2011. J. Immunol. 187:664. PubMed

9. Van Belle AB, et al. 2012. J. Immunol. 188:462. PubMed

10. Macagno M, *et al.* 2014. *J Immunol.* 192:5434. PubMed

11. Nakamura M, et al. 2015. J Immunol. 194:243. PubMed

Description:

T cell receptor (TCR) is a heterodimer consisting of an α and a β chain (TCR α/β) or a γ and a δ chain (TCR γ/δ). TCR γ/δ belongs to the immunoglobulin superfamily, which is involved in the recognition of certain bacterial and tumor antigens bound to MHC class I. γ/δ TCR associates with CD3 and is expressed on a T cell subset found in the thymus, the intestinal epithelium, and the peripheral lymphoid tissues and peritoneum. Most γ/δ T cells are CD4-/CD8- although some are CD8+. T cells expressing the γ/δ TCR have been shown to play a role in oral tolerance, tumor-associated tolerance, and autoimmune disease. It has been reported that γ/δ T cells also play a principal role in antigen presentation.

Antigen References:

- 1. Skarstein K, et al. 1995. Immunology 81:497.
- 2. Harrison LC, et al. 1996. J. Exp. Med. 184:2167.
- 3. Wildner G, et al. 1996. Eur. J. Immunol. 26:2140.
- 4. Brandes M, et al.