SONY

Product Data Sheet

APC/Fire™ 750 anti-mouse CD5

Catalog # / Size: 1103165 / 25 µg
1103170 / 100 µg

Clone: 53-7.3

Isotype: Rat IgG2a, κ

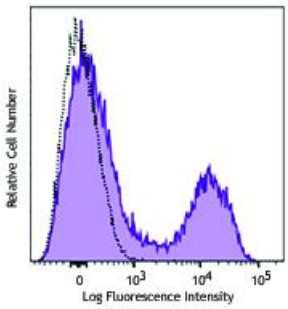
Immunogen: Mouse thymus or spleen

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2



C57BL/6 mouse splenocytes were stained with CD5 (clone 53-7.3) APC/Fire™ 750 (filled histogram) or rat IgG2a, κ APC/Fire™ 750 isotype control (open histogram).

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 ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation[1], and immunohistochemistry[2] of acetone-fixed frozen tissue sections, zinc-fixed paraffin-embedded sections and formalin-fixed paraffin-embedded sections.

Application References:

1. Ledbetter JA, *et al.* 1979. *Immunol. Rev.* 47:63. (IP)
2. Ledbetter JA, *et al.* 1980. *J. Exp. Med.* 152:280. (FC, IHC)
3. Bourdeau A, *et al.* 2007. *Blood* doi:10.1182/blood-2006-08-044370.

Description: CD5 is a 67 kD protein, also known as Lyt-1, Ly-1, T1, Tp67, or Ly-12. It is a member of the scavenger receptor cysteine-rich protein superfamily (SRCR) and primarily expressed on thymocytes, T cells, and B-1 cells. Although mature α/β T cells express high levels of CD5, very few γ/δ T cells express this antigen. The interaction of CD5 with CD72, gp35-37, TCR, or BCR is involved in T and B cell activation.

Antigen References:

1. Barclay A, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
2. Kipps TJ. 1988. *Adv. Immunol.* 47:117.
3. Antin JH, *et al.* 1985. *J. Immunol.* 136:505.
4. Tarakhovsky A, *et al.* 1995. *Science* 269:535.

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