

PE/Cy5 anti-mouse CD4

Catalog # / Size: 130312 / 100 µg

Clone: H129.19

Isotype: Rat IgG2a, κ

Immunogen: Mouse lymphocytes

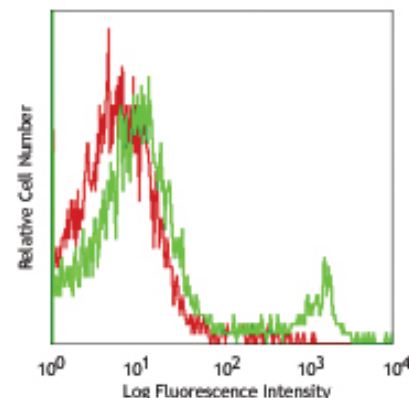
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE/Cy5 under optimal conditions. The solution is free of unconjugated PE/Cy5 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.**



C57BL/6 splenocytes stained with H129.19 PE/Cy5

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 ≤0.06 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: blocking of CD4⁺ T cell activation¹⁻³, depletion. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays.

Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.

Application References:

1. Naquet P. 1985. *Immunogenetics*. 22:247-256.
2. Pierres A. 1984. *J. Immunol.* 132:2775-2782.
3. Guo MW. 1995. *Zygote*. 3:65-73.
4. Ghobrial RR. 1989. *Clin Immunol Immunopathol*. 52:486-506.

Description: CD4 is a 55 kD protein, also known as L3T4 or T4. It is a member of the Ig superfamily, primarily expressed on most thymocytes, a subset of T cells, and weakly on macrophages and dendritic cells. It acts as a coreceptor with the TCR during T cell activation and thymic differentiation by binding MHC class II and associating with the protein tyrosin kinase, lck. The H129.19 antibody is able to block CD4 mediated cell adhesion and T cell activation. It is also useful for in vivo and in vitro depletion of CD4⁺ T cells. H129.19 antibody blocks binding of the anti-mouse CD4 mAbs GK1.5 and RM4-5, but not RM4-4 antibody. H129.19 antibody inhibits various responses of T helper cells to antigenic or mitogenic stimuli.

Antigen References:

1. Barclay A, et al. 1997. *The Leukocyte Antigen FactsBook Academic Press*.
2. Bierer BE, et al. 1989. *Annu. Rev. Immunol*. 7:579.
3. Janeway CA. 1992. *Annu. Rev. Immunol*. 10:645.
4. Naquet P. 1985. *Immunogenetics*. 22:247-256.
5. Pierres A. 1984. *J. Immunol.* 132:2775-2782.
6. Guo MW. 1995. *Zygote*. 3:65-73.
7. Ghobrial RR. 1989. *Clin Immunol Immunopathol*. 52:486-506.

Related Products:	Product	Clone	Application
	PE/Cy5 Rat IgG2a, κ Isotype Ctrl	RTK2758	FC, ICFC
	Cell Staining Buffer		FC, ICC, ICFC
	RBC Lysis Buffer (10X)		FC, ICFC
	TruStain fcX™ (anti-mouse CD16/32)	93	FC



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