

# Product Data Sheet

## APC/Cy7 anti-rat CD4

**Catalog # / Size:** 201517 / 25 µg  
201518 / 100 µg

**Clone:** W3/25

**Isotype:** Mouse IgG1, κ

**Immunogen:** Rat thymocyte membrane glycoproteins

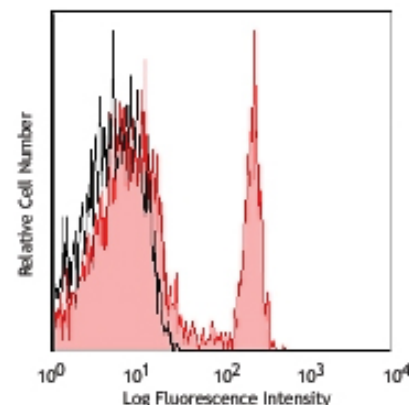
**Reactivity:** Rat

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with APC/Cy7 under optimal conditions. The solution is free of unconjugated APC/Cy7 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 W3/25 APC/Cy7

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

**Application Notes:** The W3/25 antibody has been shown to inhibit IL-2 production by T helper cells and to prevent autoimmune T cell transfer in an MBP induced EAE model *in vivo*. Additional reported applications (for the relevant formats) include: immunohistochemistry of acetone-fixed frozen sections<sup>1,2</sup>, inhibition of IL-2 production<sup>3</sup>, inhibition of MBP-induced T cell activation in EAE transfer model<sup>3</sup>.

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:**

- Whiteland JL, et al. 1995. *J. Histochem. Cytochem.* 43:313. (IHC)
- Shioji K, et al. 2001. *Circulation Res.* 89:540. (IHC)
- Mannie MD, et al. 1993. *J. Immunol.* 151:7293.
- Kurtz CC, et al. 2007. *Dev. Comp. Immunol.* 31:415. PubMed

**Description:** CD4 is a 55 kD glycoprotein also known as T4. Rat CD4 is a member of the immunoglobulin superfamily and is expressed on majority of thymocytes, macrophages, and a peripheral T cell subset (T helper cells). CD4 is a T cell co-receptor that interacts with the MHC class II molecule and is involved in T cell activation.

**Antigen References:**

- Brideau RJ, et al. 1980. *Eur. J. Immunol.* 10:609.
- Clark SJ, et al. 1987. *P. Natl. Acad. Sci. USA* 84:1649.

### Related Products:

**Product**  
APC/Cy7 Mouse IgG1, κ Isotype Ctrl  
Cell Staining Buffer  
RBC Lysis Buffer (10X)

**Clone**  
MOPC-21

**Application**  
FC, ICFC  
FC, ICC, ICFC  
FC, ICFC



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