

# Product Data Sheet

## APC anti-rat CD4

**Catalog # / Size:** 201509 / 50 µg

**Clone:** W3/25

**Isotype:** Mouse IgG1, κ

**Immunogen:** Rat thymocyte membrane glycoproteins

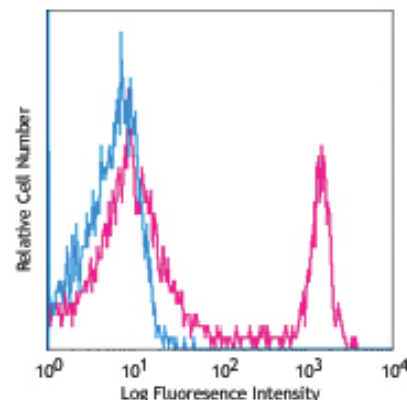
**Reactivity:** Rat

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

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.5% BSA (origin USA).

**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

## 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 10<sup>6</sup> 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>.

**Application References:**

1. Whiteland JL, *et al.* 1995. *J. Histochem. Cytochem.* 43:313. (IHC)
2. Shioji K, *et al.* 2001. *Circulation Res.* 89:540. (IHC)
3. Mannie MD, *et al.* 1993. *J. Immunol.* 151:7293.
4. Kurtz CC, *et al.* 2007. *Dev. Comp. Immunol.* 31:415. PubMed
5. Tracey Q, *et al.* 2012. *PLoS One.* 7:e42662. 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:**

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

### Related Products:

**Product**  
 APC Mouse IgG1, κ Isotype Ctrl  
 Cell Staining Buffer

**Clone**  
 MOPC-21

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



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