

**APC anti-rat CD4**

**Catalog # / Size:** 1607545 / 50 µg

**Clone:** W3/25

**Isotype:** Mouse IgG1, κ

**Immunogen:** Rat thymocyte membrane glycoproteins

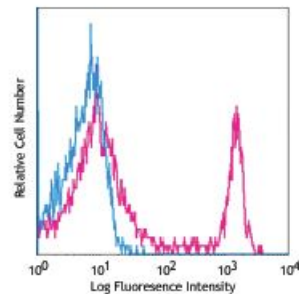
**Reactivity:** Rat

**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.

LOU rat splenocytes stained with W3/25 APC

**Concentration:** 0.2

**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  $\leq 0.25$  microg per  $10^6$  cells in 100 microl 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:**

- 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](#)
- 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:**

- Brideau RJ, *et al.* 1980. *Eur. J. Immunol.* 10:609.
- Clark SJ, *et al.* 187. *P. Natl. Acad. Sci. USA* 84:1649.