SONY

Product Data Sheet

PerCP/Cyanine5.5 anti-rat CD4

Catalog # / Size: 1607595 / 25 µg
1607600 / 100 µg

Clone: W3/25

Isotype: Mouse IgG1, κ

Immunogen: Rat thymocyte membrane glycoproteins

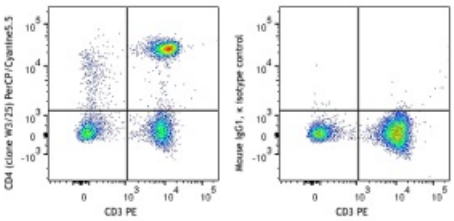
Reactivity: Rat

Preparation: The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions.

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

Workshop Number: 750 under optimal conditions.

Concentration: 0.2



LOU rat splenocytes were stained with CD3 (clone 1F4) PE and CD4 (clone W3/25) PerCP/Cyanine5.5 (left) or mouse IgG1, κ PerCP/Cyanine5.5 isotype control (right).

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 ≤ 0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

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[1,2], inhibition of IL-2 production[3], inhibition of MBP-induced T cell activation in EAE transfer model[3].

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

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.* 187. *P. Natl. Acad. Sci.* USA 84:1649.

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Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com