SONY

Product Data Sheet

PE/Cyanine7 anti-rat CD4

Catalog # / Size: 1607575 / 25 µg
1607580 / 100 µg

Clone: W3/25

Isotype: Mouse IgG1, κ

Immunogen: Rat thymocyte membrane glycoproteins

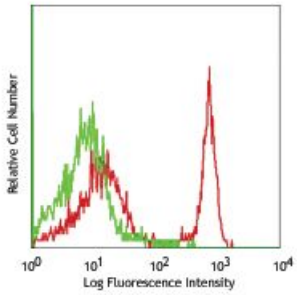
Reactivity: Rat

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE/Cy7 under optimal conditions.

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

Workshop Number: HCDM listed

Concentration: 0.2



LOU rat splenocytes stained with W3/25 PE/CY7

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.

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: immunohistochemistryof acetone-fixed frozen sections[1,2], inhibition of IL-2 production3, inhibition of MBP-induced T cell activation in EAE transfer model3.

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.

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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