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Product Data Sheet

Alexa Fluor® 647 anti-rat CD4 (domain 2)

Catalog # / Size: 203312 / 100 µg

Clone: OX-35

Isotype: Mouse IgG1, κ

**Immunogen:** MLR generated rat T helper lymphocytes

Reactivity: Rat

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

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

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**
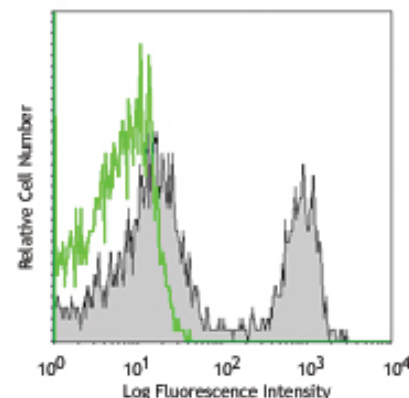
LOU rat splenocytes stained with OX-35 Alexa Fluor® 647

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

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.
** Alexa Fluor® 647 is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 647 dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Application Notes: The OX-35 antibody has been shown to bind a different CD4 epitope than the W3/25 and OX-38 antibodies. Additional reported applications (for the relevant formats) include: immunohistochemical staining[2].

Application References: 1. May E, *et al.* 2003. *J. Immunol.* 170:1099.
2. Hansson AS, *et al.* 1999. *J. Clin. Invest.* 104:589. (IHC)

Description: CD4, also known as T4, is a 55kD glycoprotein member of the immunoglobin 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. May E, *et al.* 2003. *J. Immunol.* 170:1099.
2. Hansson AS, *et al.* 1999. *J Clin Invest.* 104:589

Related Products:

Product	Clone	Application
Alexa Fluor® 647 Mouse IgG1, κ Isotype Ctrl (FC)	MOPC-21	FC, IF
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC