

Product Data Sheet

Alexa Fluor® 647 anti-rat CD8a

Catalog # / Size: 201710 / 100 µg

Clone: OX-8

Isotype: Mouse IgG1, κ

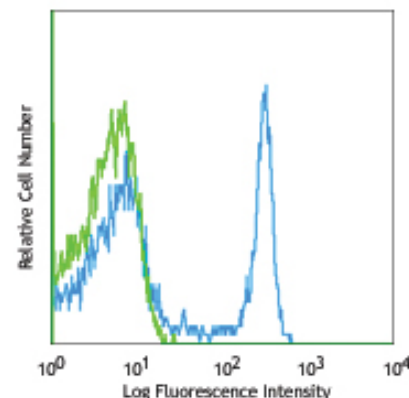
Immunogen: High molecular weight glycoproteins from rat thymocytes

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-8 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 ≤1.0 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-8 antibody has been reported to partially block T cell responses, including mixed lymphocyte reactions and cytotoxic T cell responses, and to induce macrophage activation. Additional reported applications (for the relevant formats) include: immunohistochemistry^{1,2} of acetone-fixed frozen sections and formalin-fixed paraffin-embedded sections, immunoprecipitation³, *in vivo* and *in vitro* blocking of T cell responses^{3,4}, macrophage stimulation⁵, and Western blotting^{3,6}.

Application References:

1. Barclay AN, 1981. *Immunology* 42:593. (IHC)
2. Wallgren AC, *et al.* 1995. *Transplantation* 60:594. (IHC)
3. Torres-Nagel N, *et al.* 1992. *Eur. J. Immunol.* 22:2841. (IP, WB)
4. Mason DW, *et al.* 1983. *Immunol. Rev.* 74:57.
5. Hirji N, *et al.* 1997. *J. Immunol.* 158:1833. (FA)
6. Mitnacht R., *et al.* 1998. *J. Immunol.* 160:700. (WB)

Description: CD8a is a 32 kD glycoprotein also known as T8, Lyt2, Ly-2, and CD8α. CD8a is a member of the immunoglobulin superfamily expressed on most thymocytes, subset of mature T cells, most NK cells, macrophages, and some activated CD4⁺ T cells (not resting). CD8a forms heterodimers with the CD8β chain (CD8b) on the surface of most thymocytes, while mature peripheral T lymphocytes express almost exclusively the CD8 αβ heterodimer. Intestinal intraepithelial lymphocytes express CD8a without CD8b. CD8 is an antigen co-receptor on T cells that interacts with MHC class I on antigen-presenting cells or epithelial cells. CD8 participates in T cell activation through its association with the T cell receptor complex and protein tyrosine kinase lck (p56lck).

Antigen References:

1. Johnson P, *et al.* 1985. *EMBO J.* 4:2539.
2. Thomas ML, *et al.* 1983. *Eur. J. Immunol.* 13:855.

Related Products:

Product
 Cell Staining Buffer
 Alexa Fluor® 647 Mouse IgG1, κ Isotype Ctrl (FC)

Clone

MOPC-21

Application

FC, ICC, ICFC
 FC, IF



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



*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biollegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.