

LEAF™ Purified anti-rat CD8a

Catalog # / Size: 201714 / 500 µg

Clone: OX-8

Isotype: Mouse IgG1, κ

Immunogen: High molecular weight glycoproteins from rat thymocytes

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.

Applications:

Applications: FC - *Quality tested*
IP, FA - Reported in the literature

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 or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

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	Clone	Application
	LEAF™ Purified Rat IgG1, κ Isotype Ctrl	RTK2071	FC, ICFC, WB, IP, ICC, IF, IHC, FA
	Cell Staining Buffer		FC, ICC, ICFC
	RBC Lysis Buffer (10X)		FC, ICFC



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