

APC anti-rat CD25

Catalog # / Size: 1610570 / 100 µg
1610565 / 25 µg

Clone: OX-39

Isotype: Mouse IgG1, κ

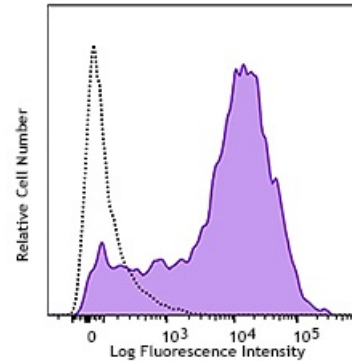
Immunogen: Rat T cell blasts from mixed lymphocyte reactions

Reactivity: Rat

Preparation: The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.

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

Concentration: 0.2 mg/ml



Con A activated (3-days) rat splenocytes were stained with CD25 (clone OX-39) APC (filled histogram) or mouse IgG1, κ APC isotype control (open histogram).

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 ≤ 0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemistry of acetone-fixed frozen sections¹, immunoprecipitation¹, weakly blocks IL-2 binding^{1, 2, 3}, and blocks IL-2 induced epithelial cell migration³.

- Application References:**
1. Peterson DJ, et al. 1987. *Mol. Immunol.* 24:1281. (IHC, IP, Block)
 2. Tellides G, et al. 1987. *Transplant Proc.* 19:4231. (Block)
 3. Digness AU, et al. 1996. *Exp.Cell Res.* 225:422. (Block)

Description: CD25 is a 55 kD glycoprotein also known as IL-2 receptor α chain. It is broadly expressed on activated T and B cells, a subset of thymic and splenic dendritic cells, and intestinal epithelial cells in the rat. IL-2 is a critical cytokine involved in lymphocyte proliferation and clonal expansion. IL-2 signaling requires the high affinity IL-2 receptor composed of IL-2 receptor chains α, β, and γ. The OX-39 antibody weakly inhibits IL-2 binding to the IL-2 receptor and has been shown to block some IL-2 mediated responses *in vitro*.

- Antigen References:**
1. Digness AU, et al. 1996. *Exp.Cell Res.* 225:422.
 2. Peterson DJ, et al. 1987. *Mol. Immunol.* 24:1281.