SONY

# Product Data Sheet

## APC anti-rat CD25

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

**Clone:** OX-39

**Isotype:** Mouse IgG1, κ

**Immunogen:** Rat T cell blasts from mixed lymphocyte reactions

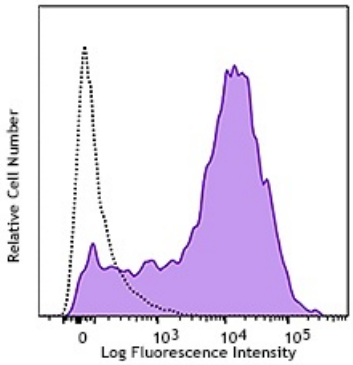
**Reactivity:** Rat

**Preparation:** The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.

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

**Workshop Number:** HCDM listed

**Concentration:** 0.2




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: immunohistochemistryof acetone-fixed frozen sections[1], immunoprecipitation[1], weakly blocks IL-2 binding[1, 2, 3], and blocks IL-2 induced epithelial cell migration[3].

**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)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**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.



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