SONY

Product Data Sheet

Biotin anti-rat CD25

Catalog # / Size: 1610555 / 100 µg

Clone: OX-39

Isotype: Mouse IgG1, κ

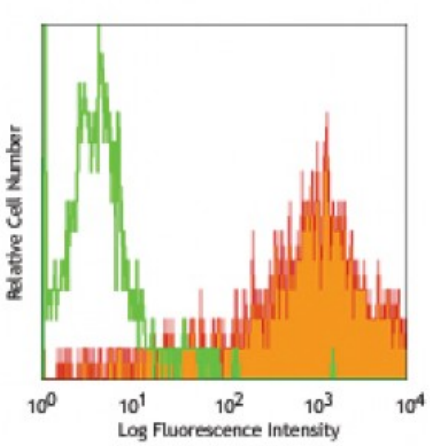
Immunogen: Rat T cell blasts from mixed lymphocyte reactions

Reactivity: Rat

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

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

Concentration: 0.5



Con A-stimulated LOU rat splnocytes (3days) stained with biotinylated OX-39, followed by Sav-PE

Applications:

Applications: Flow Cytometry, Immunohistochemistry

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 ≤0.25 microg per million cells in 100 microL 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 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.

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