

# Product Data Sheet

## Biotin anti-rat CD25

**Catalog # / Size:** 202111 / 100 µg

**Clone:** OX-39

**Isotype:** Mouse IgG1, κ

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

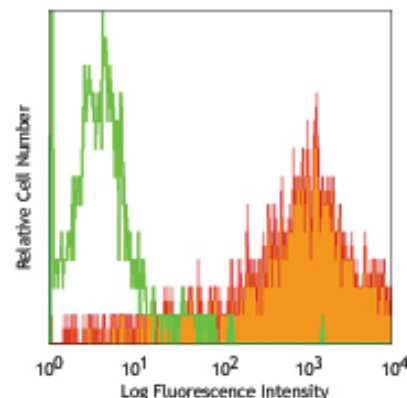
**Reactivity:** Rat

**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 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



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

## Applications:

**Applications:** FC - *Quality tested*  
 IHC - *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 ≤0.25 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 sections<sup>1</sup>, immunoprecipitation<sup>1</sup>, weakly blocks IL-2 binding<sup>1, 2, 3</sup>, and blocks IL-2 induced epithelial cell migration<sup>3</sup>.

**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.

### Related Products:

**Product**  
 Cell Staining Buffer  
 RBC Lysis Buffer (10X)  
 Biotin Mouse IgG1, κ Isotype Ctrl

### Clone

MOPC-21

### Application

FC, ICC, ICFC  
 FC, ICFC  
 FC, ICFC



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