

# Product Data Sheet

## PE anti-rat CD25

**Catalog # / Size:** 202105 / 50 µg

**Clone:** OX-39

**Isotype:** Mouse IgG1, κ

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

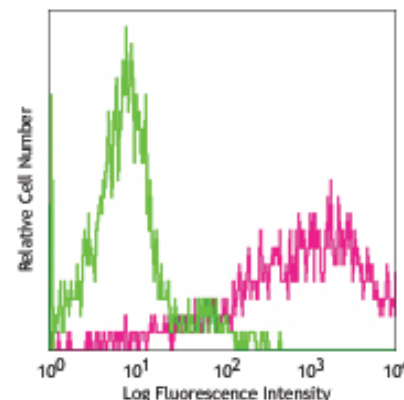
**Reactivity:** Rat

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

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.5% BSA (origin USA).

**Concentration:** 0.2 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



ConA-stimulated (3day) LOU splenocytes stained with OX-39 PE

## Applications:

**Applications:** FC - Quality tested

**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**  
PE Mouse IgG1, κ Isotype Ctrl  
Cell Staining Buffer

**Clone**  
MOPC-21

**Application**  
FC, ICFC  
FC, ICC, ICFC



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biollegend.com/ordering#license](http://www.biollegend.com/ordering#license)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.