

# Product Data Sheet

## Alexa Fluor® 488 anti-rat CD25

**Catalog # / Size:** 202108 / 100 µg

**Clone:** OX-39

**Isotype:** Mouse IgG1, κ

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

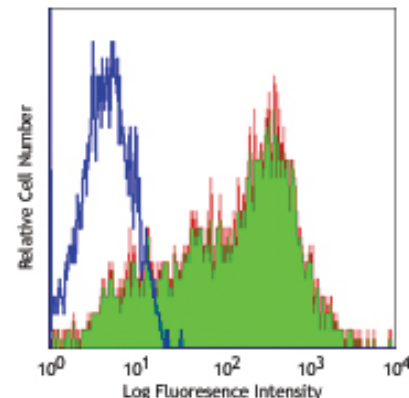
**Reactivity:** Rat

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 488 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 488.

**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 and protected from prolonged exposure to light. **Do not freeze.**



Con A-activated (3-days) LOU rat splenocytes stained with OX-39 Alexa Fluor® 488

## 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.

\* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.

\*\* Alexa Fluor® 488 is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 488 dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

**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  
 Alexa Fluor® 488 Mouse IgG1, κ Isotype Ctrl (FC)

### Clone

MOPC-21

### Application

FC, ICC, ICFC  
 FC, IF



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