

Product Data Sheet

FITC anti-rat CD25

Catalog # / Size: 202103 / 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 FITC under optimal conditions. The solution is free of unconjugated FITC.

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

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.**

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 ≤ 1.0 µg per 10⁶ 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 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)
4. Tracey Q, *et al.* 2012. *PLoS One.* 7:e42662. PubMed.

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
FITC Mouse IgG1, κ Isotype Ctrl
Cell Staining Buffer

Clone
MOPC-21

Application
FC, ICFC
FC, ICC, ICFC



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