

## FITC anti-rat CD2

**Catalog # / Size:** 201303 / 100 µg

**Clone:** OX-34

**Isotype:** Mouse IgG2a, κ

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

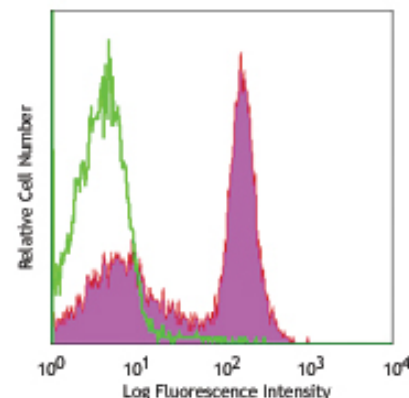
**Reactivity:** Rat

**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.**



LOU rat splenocytes stained with OX-34 FITC

## 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<sup>1</sup> of acetone-fixed frozen sections and formalin-fixed paraffin-embedded sections, immunoprecipitation<sup>2</sup>, partial *in vitro* blocking of T cell responses<sup>3</sup>, and *in vivo* depletion of T cells<sup>3</sup>.

**Application References:**

1. Williams AF, *et al.*. 1987. *J. Exp. Med.* 165:368.
2. Jefferies WA, *et al.*. 1985. *J. Exp. Med.* 162:117.
3. Hirahara H, *et al.*. 1995. *Transplantation* 59:85.

**Description:** CD2, also known as LFA-2, is a member of the immunoglobulin gene family with an approximate molecular weight of 45 kD. It is expressed on thymocytes, peripheral T cells, dendritic epidermal T cells, macrophages in the spleen, and NK cells. CD2 can associate with the T cell receptor and participate in T cell activation through adhesion and signal transduction. CD2 binds to CD48, CD58, and CD59. The OX-34 antibody blocks CD48 binding to CD2. It has been reported to partially block T cell activation and inhibit the mixed lymphocyte reaction *in vitro*. The OX-34 antibody has also been used to deplete peripheral T cells and prevent allograft rejection *in vivo*.

**Antigen References:**

1. Jefferies WA, *et al.*. 1985. *J. Exp. Med.* 162:117.
2. Williams AF, *et al.*. 1987. *J. Exp. Med.* 165:368.

**Related Products:** **Product**

FITC Mouse IgG2a, κ Isotype Ctrl  
Cell Staining Buffer

**Clone**

MOPC-173

**Application**

FC, ICFC  
FC, ICC, ICFC



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