

Product Data Sheet

PE anti-rat CD2

Catalog # / Size: 201305 / 50 µg

Clone: OX-34

Isotype: Mouse IgG2a, κ

Immunogen: Rat T cell blasts from mixed lymphocyte reactions

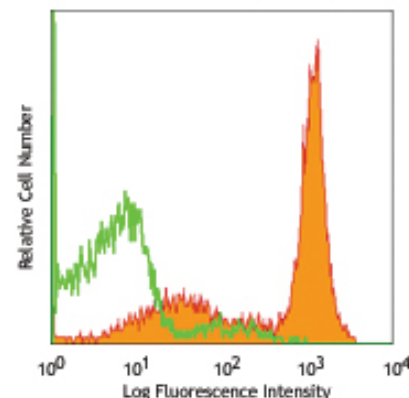
Reactivity: Rat

Preparation: The antibody was purified by affinity chromatography, and conjugated with 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.**



LOU rat splenocytes stained with OX-34 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 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: immunohistochemistry¹ of acetone-fixed frozen sections and formalin-fixed paraffin-embedded sections, immunoprecipitation², partial *in vitro* blocking of T cell responses³, and *in vivo* depletion of T cells³.

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
 PE Mouse IgG2a, κ Isotype Ctrl
 Cell Staining Buffer

Clone
 MOPC-173

Application
 FC, ICFC
 FC, ICC, ICFC



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