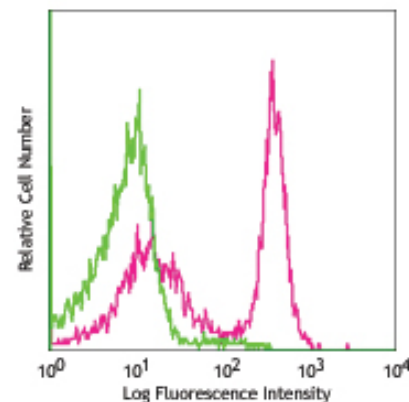


Purified anti-rat CD2

Catalog # / Size: 201301 / 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.
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.



LOU splenocytes stained with purified OX-34, followed by anti-mouse IgG FITC

Applications:

Applications: FC - *Quality tested*
 IHC , IP - *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 $\leq 0.5 \mu\text{g}$ per 10^6 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
 APC Goat anti-mouse IgG (minimal x-reactivity)
 Purified Mouse IgG2a, κ Isotype Ctrl
 PE Goat anti-mouse IgG (minimal x-reactivity)
 Cell Staining Buffer

Clone
 Poly4053
 MOPC-173
 Poly4053

Application
 FC
 FC, ICC, IF, IHC, IP, WB
 FC
 FC, ICC, ICFC



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