
Anti-Rat CD25 Functional Grade Purified

Catalog Number: 16-0390

Also known as: Interleukin-2 Receptor alpha

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Rat CD25 Functional Grade Purified

REF **Catalog Number:** 16-0390

Clone: OX39

Concentration: 1 mg/mL

Host/Isotype: Mouse IgG1

Endotoxin: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide

Temperature Limitation: Store at 2-8°C.

LOT **Batch Code:** Refer to vial

Use By: Refer to vial

Description

The OX39 monoclonal antibody reacts with mouse CD25, the 55 kDa interleukin-2 receptor alpha (IL-2R alpha). CD25 is expressed by early progenitors of the T and B lineages as well as by activated mature T and B lymphocytes. By itself, CD25 binds IL-2 only with low affinity. However, CD25 associates with CD122 (IL-2 receptor beta chain) and CD132 (common gamma chain) to form the high affinity IL-2 receptor. CD25 plays a role in lymphocyte differentiation and activation/proliferation.

The OX39 clone has been shown to deplete CD25 cells in vivo.

Applications Reported

This OX39 antibody has been reported for use in flow cytometric analysis and functional depletion assays.

Applications Tested

This OX39 antibody has been tested by flow cytometric analysis of rat splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Ghiringhelli F, Puig PE, Roux S, Parcellier A, Schmitt E, Solary E, Kroemer G, Martin F, Chauffert B, Zitvogel L. Tumor cells convert immature myeloid dendritic cells into TGF-beta-secreting cells inducing CD4+CD25+ regulatory T cell proliferation. *J Exp Med.* 2005 Oct 3;202(7):919-29. (**OX39**, in vivo depletion)

Paterson DJ, Jefferies WA, Green JR, Brandon MR, Corthesy P, Puklavec M, Williams AF. Antigens of activated rat T lymphocytes including a molecule of 50,000 Mr detected only on CD4 positive T blasts. *Mol Immunol.* 1987 Dec;24(12):1281-90. (**OX39**, mAb development, PubMed)

Related Products

16-4714 Mouse IgG1 K Isotype Control Functional Grade Purified (P3.6.2.8.1)

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