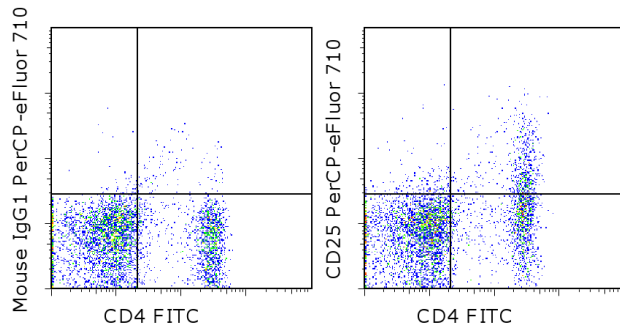


Anti-Rat CD25 PerCP-eFluor[®] 710

Catalog Number: 46-0390

Also known as: Interleukin-2 Receptor alpha, IL-2Ra, IL2Ra

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



Staining of rat splenocytes with Anti-Rat CD4 FITC (cat. 11-0040) and 0.03 ug of Mouse IgG1 K Isotype Control PerCP-eFluor[®] 710 (cat. 46-4714) (left) or 0.03 ug of Anti-Rat CD25 PerCP-eFluor[®] 710 (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Rat CD25 PerCP-eFluor[®] 710

REF **Catalog Number:** 46-0390

Clone: OX39

Concentration: 0.2 mg/mL

Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide



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.

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 0.06 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.

PerCP-eFluor[®] 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor[®] 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

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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

11-0040 Anti-Rat CD4 FITC (OX35)

46-4714 Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (P3.6.2.8.1)

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