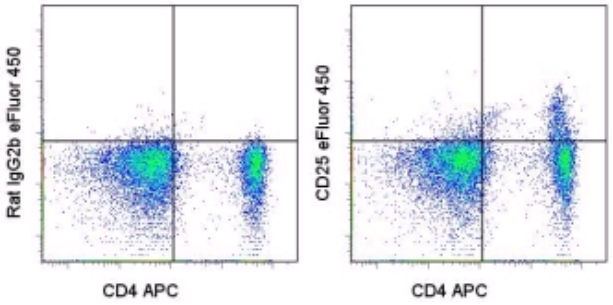
full spectrum cell analysis®
eBioscience®

# Anti-Mouse CD25 eFluor® 450 (Pacific Blue® replacement)

Catalog Number: 48-0253
Also Known As:Interleukin-2 Receptor alpha, IL-2Ra, IL2Ra
RUO: For Research Use Only




Staining of BALB/c splenocytes with Anti-Mouse CD4 APC (cat. 17-0041) and 0.5 µg of Rat IgG2b κ Isotype Control eFluor® 450 (cat. 48-4031) (left) or 0.5 µg of Anti-Mouse CD25 eFluor® 450 (right). Total viable cells were used for analysis.

## Product Information

Contents: Anti-Mouse CD25 eFluor® 450 (Pacific Blue® replacement)
REF Catalog Number: 48-0253
Clone: eBio3C7 (3C7)
Concentration: 0.2 mg/ml
Host/Isotype: Rat IgG2b, κ

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.
LOT Batch Code: Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

## Description

The eBio3C7 antibody reacts with mouse CD25, the 55 kDa interleukin-2 receptor a chain (IL-2Ra). CD25 is expressed by early progenitors of the T and B lineage 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 γ chain) to form the high affinity IL-2 receptor. Binding of IL-2 to both the high and low affinity classes of the IL-2 receptor is inhibited by the 3C7 antibody. CD25 plays a role in lymphocyte differentiation and activation/proliferation. The epitopes recognized by eBio3C7, PC61.5 and eBio7D4 are all different allowing for depletion with one antibody (typically PC61.5) and subsequent detection with another CD25 antibody.

## Applications Reported

This eBio3C7 (3C7) antibody has been reported for use in flow cytometric analysis.

eFluor® 450 is a replacement for Pacific Blue®. eFluor® 450 emits at 456 nm and is excited with the Violet laser. Please make sure that your instrument is capable of detecting this fluorochome.

## Applications Tested

This eBio3C7 (3C7) antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 1 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 $10^5$ to $10^8$ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor™ 450 is a replacement for Pacific Blue®. eFluor™ 450 emits at 456 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochome.

## References

Klug DB, Carter C, Crouch E, Roop D, Conti CJ, Richie ER. Interdependence of cortical thymic epithelial cell differentiation and T-lineage commitment. Proc Natl Acad Sci U S A. 1998 Sep 29;95(20):11822-7. (eBio3C7, IH/F, PubMed)

Ortega G, Robb RJ, Shevach EM, Malek TR. The murine IL 2 receptor. I. Monoclonal antibodies that define distinct functional epitopes on activated T cells and react with activated B cells. J Immunol. 1984 Oct;133(4):1970-5.

## Related Products

00-5523 Foxp3 Staining Buffer Set

12-5773 Anti-Mouse/Rat Foxp3 PE (FJK-16s)
48-4031 Rat IgG2b K Isotype Control eFluor® 450 (Pacific Blue® replacement)
95-0041 Anti-Mouse CD4 eFluor® 650NC (GK1.5)

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Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.eBioscience.com • info@eBioscience.com