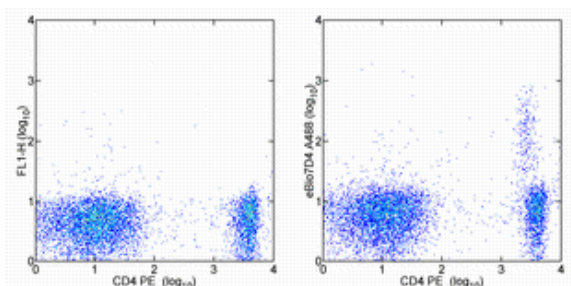


## Anti-Mouse CD25 Alexa Fluor<sup>®</sup> 488

**Catalog Number:** 53-0252

**Also Known As:** Interleukin-2 Receptor alpha

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



Staining of BALB/c splenocytes with Anti-Mouse CD4 PE (cat. 12-0042) and 0.06  $\mu$ g of Rat IgM kappa Isotype Control Alexa Fluor<sup>®</sup> 488 (cat. 53-4341) (left) or Anti-Mouse CD25 Alexa Fluor<sup>®</sup> 488 (right). Cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Mouse CD25 Alexa Fluor<sup>®</sup> 488

**REF** **Catalog Number:** 53-0252

**Clone:** eBio7D4 (7D4)

**Concentration:** 0.5 mg/mL

**Host/Isotype:** Rat IgM, kappa

**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 eBio7D4 antibody reacts with mouse CD25, the 55 kDa interleukin-2 receptor  $\alpha$  chain (IL-2R $\alpha$ ). 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  $\gamma$  chain) to form the high affinity IL-2 receptor. 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) followed by subsequent detection with another one. eBio7D4 has been reported to block IL-2 binding but can be overcome by additional IL-2. The monoclonal antibody PC61.5 (cat. 16-0251) is recommended for in vivo studies.

### Applications Reported

This eBio7D4 (7D4) antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This eBio7D4 (7D4) antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.06  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. 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.

### References

Malek TR, Robb RJ, Shevach EM. Identification and initial characterization of a rat monoclonal antibody reactive with the murine interleukin 2 receptor-ligand complex. Proc Natl Acad Sci U S A. 1983 Sep;80(18):5694-8.

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

12-0042 Anti-Mouse CD4 PE (RM4-5)

53-0251 Anti-Mouse CD25 Alexa Fluor<sup>®</sup> 488 (PC61.5)

53-0253 Anti-Mouse CD25 Alexa Fluor<sup>®</sup> 488 (eBio3C7 (3C7))

53-0259 Anti-Human CD25 Alexa Fluor<sup>®</sup> 488 (BC96)

53-4341 Rat IgM Isotype Control Alexa Fluor<sup>®</sup> 488

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