

# Product Datasheet

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## Anti-Human CD25 (IL-2R $\alpha$ )

### Purified

### Monoclonal Antibody

#### Product Information

**Product No.:** C9310  
**Clone:** 7G7B6  
**RRID:** AB\_2829884  
**Isotype:** Mouse IgG2a  
**Storage:** Sterile 2-8°C

#### Product Description

##### Specificity:

Clone 7G7B6 reacts with human IL-2R $\alpha$ .

##### Antigen Distribution:

IL-2R $\alpha$  is expressed on activated mature T and B lymphocytes, during early stages of thymocytes development, pre-B cells, and in activated CD4<sup>+</sup> memory T-lymphocytes.

##### Background:

CD25 (IL-2R $\alpha$ ) is the 55 kDa subunit of the interleukin 2 receptor alpha chain which has been shown to play roles in lymphocyte differentiation, activation, and proliferation. IL-2R $\alpha$  is a transmembrane glycoprotein comprised of a heavily glycosylated extracellular domain, a transmembrane region and a short cytoplasmic tail. IL-2R $\alpha$  heterodimerizes with IL-2R $\beta$  (CD122) and IL-2R $\gamma$  (CD132) and forms the IL-2 receptor complex. IL-2R $\alpha$  by itself binds IL-2 with relatively low affinity, while the IL-2 receptor complex binds IL-2 with high affinity. IL-2R $\alpha$  mutations cause severe immunodeficiency.

##### Known Reactivity Species:

Human

##### Format:

Purified

##### Immunogen:

Recombinant human peripheral blood mononuclear cells (PBMCs)

##### Formulation

This purified antibody is formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.4, 1% BSA and 0.09% sodium azide as a preservative.

##### Storage and Stability

This purified antibody is stable when stored at 2-8°C. **Do not freeze.**

##### Applications

##### Applications and Recommended Usage (Quality Tested By Leinco):

ELISA

FC

WB

##### Other Applications Reported in Literature:

IF

IP

##### Country of Origin

USA

##### References

1. Xi, X. *et al.* (2016) *Front. Med.* **10**(3): 311–319
2. Hong, X. *et al.* (2015) *Biochim Biophys Acta.* **1853**(2):489-99

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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