

Product Datasheet

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Anti-Human CD25 (IL-2R α) Purified *in vivo* GOLD™ Functional Grade Monoclonal Antibody

Product Information

Product No.: C9300
Clone: 7G7B6
RRID: AB_2829882
Isotype: Mouse IgG2a
Storage: Sterile 2-8°C

Product Description

Specificity:

Clone 7G7B6 reacts with human IL-2R α .

Antigen Distribution:

IL-2R α is expressed on activated mature T and B lymphocytes, during early stages of thymocytes development, pre-B cells, and in activated CD4+ memory T-lymphocytes.

Background:

CD25 (IL-2R α) 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 α is a transmembrane glycoprotein comprised of a heavily glycosylated extracellular domain, a transmembrane region and a short cytoplasmic tail. IL-2R α heterodimerizes with IL-2R β (CD122) and IL-2R γ (CD132) and forms the IL-2 receptor complex. IL-2R α by itself binds IL-2 with relatively low affinity, while the IL-2 receptor complex binds IL-2 with high affinity. IL-2R α mutations cause severe immunodeficiency.

Known Reactivity Species:

Human

Format:

in vivo GOLD™, Purified *in vivo* Functional Grade

Immunogen:

Recombinant human peripheral blood mononuclear cells (PBMCs)

Formulation

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

Purity

≥95% monomer by analytical SEC, >95% by SDS Page

Endotoxin

< 1.0 EU/mg as determined by the LAL method

Storage and Stability

Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C. **Avoid Repeated Freeze Thaw Cycles.**

Product Preparation

Functional grade preclinical antibodies are manufactured in an animal free facility using *in vitro* cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

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

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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



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