

Product Datasheet

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Anti-Mouse CD25 [Clone PC61] — Purified *in vivo* GOLD™ Functional Grade

Monoclonal Antibody

Product Information

Product No.:	C1194
Clone:	PC61
RRID:	AB_2737451
Isotype:	Rat Rat IgG1 λ
Storage:	Sterile 2-8°C

Product Description

Specificity:

Clone PC61 recognizes an epitope on mouse CD25.

Antigen Distribution:

CD25 is expressed in activated T cells and B cells, thymocyte subset, pre-B cells, T regulatory cells.

Background:

CD25, a 55 kD type I transmembrane glycoprotein, has been shown to play roles in lymphocyte differentiation, activation, and proliferation. Many resting memory T cells constitutively express IL2RA. It functions as the receptor for HTLV-1, resulting in its expression on neoplastic cells in adult T cell lymphoma/leukemia. CD25 (sIL-2R) has been used to track disease progression. Some additional clinical applications include Chagas disease, a disease characterized by a decline of CD25 expression on immune cells, and Multiple sclerosis, in which treatments with mAbs target CD25.

Known Reactivity Species:

Mouse

Format:

in vivo GOLD™, Purified in vivo Functional Grade

Immunogen:

IL-2-dependent cytolytic mouse T-cell clone B6.1

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.

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

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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):

FC The suggested concentration for this PC61 antibody for staining cells in flow cytometry is ≤ 1 µg per 10⁶ cells in a volume of 100 µl. Titration of the reagent is recommended for optimal performance for each application.

WB The suggested concentration for this PC61 antibody for use in western blotting is 1-10 µg/ml.

Other Applications Reported in Literature:

CODEX®

B

Depletion

IHC (Frozen)

IP

FA

Country of Origin

USA

References

- 1.) Braley-Mullen, H. *et al.* (2018) *Immunohorizons*. **2**(1): 54–66. [PubMed](#)
- 2.) Leonard, WJ. *et al.* (2002) *The EMBO Journal* **21**: 3051
- 3.) Alt, FW. *et al.* (1995) *Immunity* **3**: 521
- 4.) Greene, WC. *et al.* (1990) *J Invest Dermatol.* **94**: 27S
- 5.) Gubin, M. *et al.* (2018) *Cell*. **175**(4):1014–1030.e19 [Journal Link](#)

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