

# Product datasheet for AM26037LE-M

# OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

# Il2ra Rat Monoclonal Antibody [Clone ID: PC61.5.3]

### **Product data:**

**Product Type:** Primary Antibodies

Clone Name: PC61.5.3

**Applications:** FC, FN, IHC, IP

**Recommended Dilution:** Flow Cytometry: 0.5 µg/106 cells (See Protoclols for more details).

Immunoprecipitation. Functional Assays.

Immunohistochemistry on Frozen Sections.

Reactivity: Mouse

Host: Rat Isotype: IgG1

Clonality: Monoclonal

**Immunogen:** B6.1 CTL cell line.

Spleen cells from immunised OFA rats were fused with cells of the P3X63Ag8.653 mouse

myeloma cell line.

**Specificity:** This Monoclonal antibody reacts with the low affinity alpha chain of the interleukin-2 receptor

present on activated T and B cells in mice.

Clone PC61.5.3 is reported to inhibit IL-2 binding and IL-2 dependent proliferation.

Formulation: PBS

State: Low Endotoxin

State: Liquid sterile purified IgG fraction

Preservative: None

**Concentration:** lot specific

**Purification:** Protein G Chromatography

**Conjugation:** Unconjugated

**Storage:** Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Gene Name: interleukin 2 receptor, alpha chain





### Il2ra Rat Monoclonal Antibody [Clone ID: PC61.5.3] - AM26037LE-M

Database Link: Entrez Gene 16184 Mouse

P01590

Background: CD25 (IL2Ralpha, Tac) is a ligand-binding alpha subunit of interleukin 2 receptor (IL2R).

Together with beta and gamma subunit CD25 constitues the high affinity IL2R, whereas CD25 alone serves as the low affinity IL2R. CD25 expression rapidly increases upon T cell activation. The 55 kDa CD25 molecule is enzymatically cleaved and shed from the cell surface as a soluble 45 kDa s-Tac, whose concentration in serum can be used as a marker of T cell activation. Expression of CD25 indicates the neoplastic phenotype of mast cells. CD25+ CD4+

FoxP3+ regulatory cells (Treg cells) play a crucial role in the control of organ-specific

autoimmune diseases.

Synonyms: Interleukin-2 receptor alpha chain, IL-2 receptor alpha subunit, IL-2-RA, IL2-RA, p55, TAC

antigen



Note:

### Protocol: Flow Cytometry Analysis:

#### Method:

- 1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte®-M cell separation medium.
- 2. Wash 2 times.
- 3. Resuspend the cells to a concentration of  $2x10^\circ$  cells/ml in media A. Add 50  $\mu$ l of this suspension to each tube (each tube will then contain  $1x10^\circ$  cells, representing 1 test).
- 4. To each tube, add 0.5 μg of AM26037LE-M.
- 5. Vortex the tubes to ensure thorough mixing of antibody and cells.
- 6. Incubate the tubes for 30 minutes at 4°C.
- 7. Wash 2 times at 4°C.
- 8. Add 100  $\mu$ l of secondary antibody (FITC Goat anti-rat IgG (H+L)) at 1/500 dilution.
- 9. Incubate the tubes at 4°C for 30-60 minutes. (It is recommended that the tubes are protected from light since most fluorochromes are light sensitive).
- 10. Wash 2 times at 4°C in media B.
- 11. Resuspend the cell pellet in 50 µl ice cold media B.
- 12. Transfer to suitable tubes for flow cytometric analysis containing 15  $\mu$ l of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.

#### Media:

A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100  $\mu$ l of 2M sodium azide in 100 mls).

B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100  $\mu$ l of 2M sodium azide in 100 mls).

#### **Results:**

### **Tissue Distribution by Flow Cytometry Analysis:**

Mouse Strain: BALB/c

Cell Concentration: 1x106 cells per tests.

Isotypic Control: Rat IgG1

Antibody Concentration Used: 0.5 µg /106 cells.

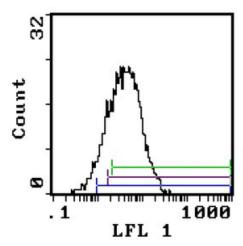
Isotypic Control: Rat IgG1.

**Cell Source: Percentage of cells stained above control:** 

T Cell Blasts: 91.3% Thymus: 1.1%.



# **Product images:**



Cell Source: T Cell Blasts (Con A activated).
Percentage of cells stained above control: 91.3%