

Product datasheet for AM26037RP-L

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

Product data:

Product Type: Primary Antibodies

Clone Name: PC61.5.3

Applications: FC

Recommended Dilution: Flow Cytometry: 1.0 μg/106 cells (See Protoclols for more details).

Reactivity: Mouse

Host: Rat lgG1

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

Label: PE

State: Liquid purified IgG fraction

Stabilizer: EIA grade BSA to bring total protein concentration to 4-5 mg/ml

Preservative: 0.02% Sodium Azide

Purification: Protein G Chromatography

Conjugation: PE

Storage: Store undiluted at 2-8°C.

DO NOT FREEZE!

Stability: Shelf life: one year from despatch.

Gene Name: interleukin 2 receptor, alpha chain

Database Link: Entrez Gene 16184 Mouse

P01590





Il2ra Rat Monoclonal Antibody [Clone ID: PC61.5.3] - AM26037RP-L

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 μ l of this suspension to each tube (each tube will then contain $1x10^{\circ}$ cells, representing 1 test).
- 4. To each tube, add 0.5-1.0 μg of AM26037RP-S or AM26037RP-L per 1[®] cells.
- 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 µl 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 μ l ice cold media B.
- 12. Transfer to suitable tubes for flow cytometric analysis containing 15 μ 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 μ l of 2M sodium azide in 100 mls).

B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 μ 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: 1 µg /106 cells.

Isotypic Control: PE Rat IgG1.

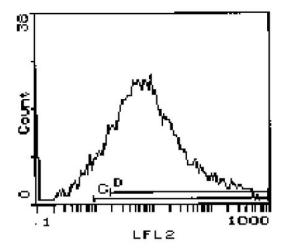
Cell Source: Percentage of cells stained above control:

T Cell Blasts (Con A activated): 82.3%

Thymus (unactivated): 2.5%.



Product images:



Cell Source: T Cell Blasts (Con A Activated).Percentage of cells stained above control: 82.3%