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Datasheet for 200-526-M73

CD25 APC Antibody

Overview

Description:	Anti-CD25 (RAT) Allophycocyanin Conjugated Monoclonal Antibody - 200-526-M73
Item No.:	200-526-M73
Size:	100 µg
Applications:	FC
Reactivity:	Mouse
Host Species:	Rat

Product Details

Background:	CD25 is a 55KDa transmembrane glycoprotein consisting of a heavily glycosylated extracellular domain, a transmembrane region and a short cytoplasmic tail. It is expressed during early stages of thymocytes development and in activated CD4+ memory T-lymphocytes. CD25 heterodimerizes with IL2R-beta and IL-2R gamma and forms the tripartite high affinity IL-2 receptor complex. It increases the specificity and affinity of IL-2 receptor complex for IL-2 ligand and is necessary for receptor clustering required for augmentation of IL-2 signaling. Mutations in CD25 result in severe immunodeficiency.
Synonyms:	Interleukin-2 receptor subunit alpha, IL-2 receptor subunit alpha, IL-2-RA, IL-2R subunit alpha, IL2-RA, TAC antigen, p55, CD25 Antibody
Host Species:	Rat
Conjugate:	Allophycocyanine (APC)
Clonality:	Monoclonal
Clone ID:	PC61
Format:	IgG1
F/P Ratio:	1-2

Target Details

Gene Name:	Il2r
Reactivity:	Mouse

Immunogen Type:	Other
Immunogen:	Anti-CD25 Antibody (Monoclonal) was produced by repeated immunizations with IL-2-dependent cytolytic mouse T-cell clone B6.1.
Purity/Specificity:	Allophycocyanin conjugated CD25 Monoclonal Antibody was Protein G Purified from tissue culture supernatant and is directed against mouse CD25. Reactivity is observed against mouse CD25. Cross reactivity with CD25 from other sources has not been tested.
Relevant Links:	• UniProtKB - P01590 • NCBI - NP_032393.3 • GeneID - 16184

Application Details

Tested Applications:	FC
Application Note:	Anti-CD25 is tested for Flow Cytometry. Researchers should determine optimal titers for applications that are not stated.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	0.1-0.5 µg/1x10^6 cells

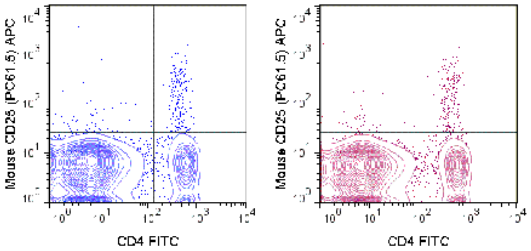
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.2 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	0.1% Gelatin

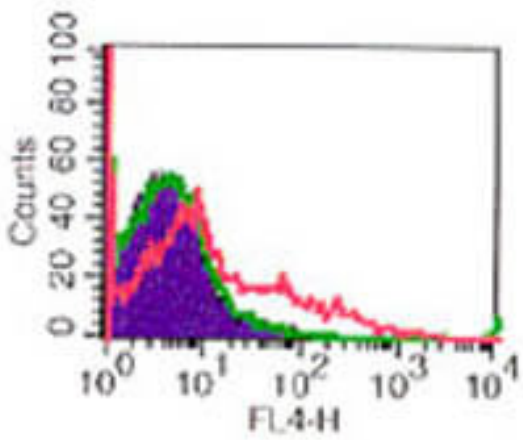
Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. Dilute only prior to immediate use. This product is stable at 4° C as an undiluted liquid. Use subdued lighting during handling and incubation of cells prior to analysis. Store reagent in the dark. DO NOT FREEZE.
Expiration:	Expiration date is six (6) months from date of receipt.

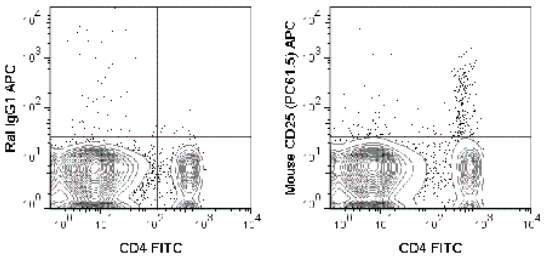
Images



Flow Cytometry
Flow Cytometry of Rat anti-MOUSE CD25 antibody Allophycocyanin conjugated. Cells: 10^6 C57BL/6 mouse splenocytes. Stimulation: none. Antibody: Anti-Mouse CD4 FITC and; (LEFT) Rockland Allophycocyanin Anti-CD25 secondary antibody using 0.125 µg; (RIGHT) APC Anti-CD25 secondary antibody control.



Flow Cytometry
Flow Cytometry of Rat anti-MOUSE CD25 antibody Allophycocyanin conjugated. Cells: 10^6 mouse splenocytes. (Shaded area cells without antibody). Stimulation: ConA stimulated. Antibody: (GREEN) isotype control antibody; (RED) Allophycocyanin Anti-CD25 rat secondary antibody using 0.1 µg.



Flow Cytometry
Flow Cytometry of Rat anti-MOUSE CD25 antibody Allophycocyanin conjugated. Cells: 10^6 C57BL/6 mouse splenocytes. Stimulation: none. Antibody: (LEFT) APC Rat IgG1 0.125µg; (RIGHT) Allophycocyanin Anti-CD25 secondary antibody using 0.125 µg.

Disclaimer

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