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CD25 Antibody [PC61.5]

CATALOG NUMBER: 76-507

Specifications

SPECIES REACTIVITY:	Mouse
TESTED APPLICATIONS:	FACS, Func, IHC, IP
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	The PC61.5 antibody specifically reacts with mouse CD25, the 55 kDa low-affinity Interleukin-2 Receptor alpha chain (IL-2R alpha), expressed on early progenitors of T and B lineage, and on B and T cells.
HOST SPECIES:	Rat

Properties

PURIFICATION:	The monoclonal antibody was purified utilizing affinity chromatography. The endotoxin level is determined by LAL test to be less than 0.01 EU/μg of the protein.
PHYSICAL STATE:	liquid
BUFFER:	Phosphate-buffered aqueous solution, ph7.2.
CONCENTRATION:	2 mg/mL
STORAGE CONDITIONS:	The product should be stored undiluted at 4˚C . Do not freeze.
CLONALITY:	Monoclonal
ISOTYPE:	Rat IgG1, lambda
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	CD25, Il2r, Ly-43, Il2ra
OFFICIAL SYMBOL:	Il2ra
GENE ID:	16184

Background

BACKGROUND:	The PC61.5 antibody specifically reacts with mouse CD25, the 55 kDa low-affinity Interleukin-2 Receptor alpha chain (IL-2R alpha), expressed on early progenitors of T and B lineage, and on B and T cells. Together with CD122 (IL-2 Receptor beta) and CD 132 (IL-2 Receptor gammac, the common gamma chain), CD25 forms high-affinity receptor complexes for IL-2. Resting B and T cells and natural killer cells do not express IL-2Ralpha. Cd25 is also expressed on the dendritic cells, and it enhances lymphocyte differentiation and activation.The PC61.5 antibody block the binding of IL-2 to both high-affinity and low-affinity receptors.
REFERENCES:	1) Hayashi, T., Hasegawa, K., Adachi, C. (2005). Elimination of CD4+ CD25+ T cell accelerates the development of glomerulonephritis during the preactive phase in autoimmune-prone female NZB× NZW F1 mice. International journal of experimental pathology,86(5), 289-296.
	2) Lowenthal, J. W., Tougne, C., MacDonald, H. R., Smith, K. A., Nabholz, M. (1985). Antigenic stimulation regulates the expression of IL 2 receptors in a cytolytic T lymphocyte clone.The Journal of Immunology,134(2), 931-939.
	3) Huang, B., Zhao, J., Shen, S., Li, H., He, K. L., Shen, G. X., ... Feng, Z. H. (2007). Listeria monocytogenes promotes tumor growth via tumor cell toll-like receptor 2 signaling.Cancer Research,67(9), 4346-4352.

FOR RESEARCH USE ONLY

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