
Biotinylated Monoclonal Antibody to Rat CD4 T Helper Cells

Monoclonal antibody Rib 5/2 is used for the identification of CD4 bearing cells, mainly T-helper / inducer lymphocytes. It can also be applied for *in vivo* blocking of CD4 mediated immunological reactions.

Product Number:	T-3123 (Lot 02PB0912)
Clone:	Rib5/2
Host species, isotype:	Mouse IgG2a
Quantity:	200µg
Format:	Purified, biotinylated, lyophilized Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.4mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01% Kathon as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
Applications:	Tested for immunohistochemistry (IHC); has been described to work in FACS. Approximate working dilution for IHC: Frozen sections: 0.5µg/ml (1:800) Paraffin sections: does not react on routinely processed paraffin sections Optimal dilutions should be determined by the end user. Suggested positive control: Rat spleen. Please see www.bma.ch for protocols and general information.
Immunogen:	Lymphoblasts.
Antigen, epitope:	Rib 5/2 detects a 53kDa glycoprotein located on the cell surface
Antigen distribution:	Isolated cells: T-lymphocytes and thymocytes, monocytes, macrophages. Tissue sections: Rib 5/2 stains T-cell areas in the spleen and lymph nodes. In the thymus Rib 5/2 detects cortical and medullary thymocytes. It recognises tissue macrophages and Th-cells according to the CD4 distribution.

Specificity:**Rat:** subpopulation of T-Cells.**Other species:** not tested.

Comparison of CD4 and CD8 Monoclonal antibodies performed by flow cytometry

Isolated cells from:	% Positive Cells			
	CD4		CD8	
	Rib 5/2	W3/25	Rib 6/1	Ox-8
Lymph node	46	43	16	16
Spleen	31	30	13	13
Peripheral blood	48	49	25	26

Courtesy of Dr. Lehmann, University of Rostock, Germany.**Selected references**

LEHMANN, M. et al.: Rejektionstherapie mit Anti-CD4 monoklonalen Antikörpern nach allogener Transplantation bei der Ratte. Frühjahrstagung fuer Immunologie, Berlin (1991).

KATZKE, G. et al.: Der Effekt einer temporaeren Anti-CD4 Therapie vor und nach allogener Inseltransplantation in Streptozotocin- diabetischen oder spontan-diabetischen Ratten. Frühjahrstagung fur Immunologie, Berlin (1991).

LEHMANN, M. et al.: A novel high-efficient anti-CD4 monoclonal antibody induces long-term survival of rat skin allografts. Transplantation: 54(6), 959-962 (1992).

LEHMANN, M. et al.: Characterization of the Anti-CD4-Induced permanent Acceptance of Rat Renal Allografts. Transplantation Proceedings: 25(5), 2859-2860 (1993).

SIEGLING, A. et al.: A nondepleting Anti-Rat CD4 Monoclonal Antibody that supresses T Helper 1-like but not T Helper 2-like intragraft lymphokine secretion induces long-term survival of Renal Allografts. Transplantation: 57(3), 464-467 (1994).

For *in vitro* research only. This product contains Kathon as a preservative.