



Peninsula Laboratories, LLC

A Member of the Bachem Group

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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-3109
Clone:	Rib5/2
Host species, isotype:	Mouse IgG2a
Quantity:	150µg
Format:	Purified, lyophilized
	Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.3mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 10mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01% thimerosal 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: 1.5µg/ml (1:200) Paraffin sections: does not react on routinely processed paraffin sections Optimal dilutions should be determined by the end user. Suggested positive control: Rat spleen.
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.



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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 fuer 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. Caution: this product contains thimerosal, a poisonous and hazardous substance.