

Product datasheet for **BM4102**

Cd8a Mouse Monoclonal Antibody [Clone ID: Rib 6/1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	Rib 6/1
Applications:	FC, IHC
Recommended Dilution:	Immunohistochemistry on frozen sections (1 µg/ml; 1:200). Suggested positive control: rat spleen. Does not react on routinely processed paraffin sections. Flow cytometry (use 10 µl of neat antibody to label 10e6 cells).
Reactivity:	Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Rat lymphoblasts
Specificity:	This antibody detects T-cell subpopulation, thymocytes. Antigen distribution: Isolated cells: Subpopulation of T-cells in the peripheral blood. Tissue sections: Rib 6/1 detects the T-cell regions in lymphoid organs and stains cortical and medullary thymocytes positively. Monoclonal antibody Rib 6/1 is used for the identification of CD8 bearing cells, mainly Tcytotoxic and suppressor lymphocytes, in tissue sections and isolated cell suspensions. Preliminary results indicate that the Rib 6/1 antigen is the β-chain of the CD8 antigen which is not expressed by NK-cells.
Formulation:	Phosphate buffered saline pH 7.2 (PBS), 10 mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01 % thimerosal as a preservative State: Purified State: Lyophilized Ig fraction
Reconstitution Method:	Restore with 0.5 ml distilled water.
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2 - 8 °C and reconstituted at -20 °C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.



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Gene Name: CD8a molecule

Database Link: [Entrez Gene 24930 Rat P07725](#)

Background: The CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell to cell interactions within the immune system. The CD8 antigen, acting as a coreceptor, and the T cell receptor on the T lymphocyte recognize antigen displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. The functional coreceptor is either a homodimer composed of two alpha chains, or a heterodimer composed of one alpha and one beta chain. Both alpha and beta chains share significant homology to immunoglobulin variable light chains.

Synonyms: CD8 alpha chain, CD8A, MAL

Note: Cross reactivity with human monocytes has been observed in FACS.

Protocol: Protocol with frozen, ice-cold acetone-fixed sections:

The whole procedure is performed at room temperature

1. Wash in PBS
2. Block endogenous peroxidase
3. Wash in PBS
4. Block with 10% normal goat serum in PBS for 30 min. in a humid chamber
5. Incubate with primary antibody (dilution see datasheet) for 1h in a humid chamber
6. Wash in PBS
7. Incubate with secondary antibody (peroxidase-conjugated goat anti mouse IgG (H+L) minimal-cross reaction to rat) for 1h in a humid chamber
8. Wash in PBS
9. Incubate with AEC substrate (3-amino-9-ethylcarbazol) for 12min.
10. Wash in PBS
11. Counterstain with Mayer's hemalum

Product images:

% Positive Cells

antibody	CD8		CD4	
	Rib 6/1	OX-8	Rib 5/2	W3/25
source:				
Lymphnode	16	16	46	43
Spleen	13	13	31	30
Peripheral Blood	25	26	48	49

Comparison of CD4 and CD8 Monoclonal antibodies performed by flow cytometry

Courtesy of Dr. Lehmann, University of Rostock, Germany.