

Datasheet: MCA2363

Description:	RAT ANTI MOUSE CD122
Specificity:	CD122
Other names:	INTERLEUKIN-2 RECEPTOR BETA CHAIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	TM-BETA 1
Isotype:	lgG2b

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	-			1/50 - 1/100
Immunohistology - Frozen			•	
Immunohistology - Paraffin			•	
ELISA			•	
Immunoprecipitation	•			
Western Blotting			•	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system to a concentration equivalent to their test reagent.

Target Species	Mouse
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Cells from murine IL-2RB ⁺ transformant TART-mBeta.

External Database Links	UniProt: P16297 Related reagents Entrez Gene: 16185 II2rb Related reagents
Fusion Partners	Lymph node cells from immunised Sprague Dawley rats were fused with cells of the mouse PA1 myeloma cell line.
Specificity	Rat anti Mouse CD122 antibody, clone TM-BETA 1 recognizes the murine CD122 cell surface glycoprotein, a ~75-85 kDa molecule also known as interleukin-2 receptor (IL-2R) beta chain. In mouse, CD122 is primarily expressed on natural killer (NK) cells and at lower levels on lymphocyte subsets, monocytes and macrophages.
	CD122 can associate with the IL-2R alpha chain (CD25) and CD132 to form a functional high affinity receptor complex that binds IL-2. CD132/CD122 heterodimers can also be formed which bind IL-2 with intermediate affinity. IL-2 binding to the IL-2R is important in the generation and differentiation of T lymphocytes and NK cells.
	Rat anti Mouse CD122 antibody, clone TM-BETA 1 blocks IL-2 high affinity binding to the IL-2R beta receptor (<u>Tanaka et al. 1991</u>).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	 Tanaka, T. et al. (1991) A novel monoclonal antibody against murine IL-2 receptor beta-chain. Characterization of receptor expression in normal lymphoid cells and EL-4 cells. <u>J Immunol. 147 (7): 2222-8.</u> Leung, K.T. (2011) The tetraspanin CD9 regulates migration, adhesion, and homing of human
	cord blood CD34+ hematopoietic stem and progenitor cells. <u>Blood</u> . 117: 1840-50.
	3. Chenoweth, M.J. <i>et al.</i> (2012) IL-15 Can Signal via IL-15Rα, JNK, and NF-κB To Drive RANTES
	Production by Myeloid Cells. J Immunol. 188: 4149-57.
	 Mertens, J. et al. (2009) Streptococcus pneumoniae serotype 1 capsular polysaccharide induces CD8CD28 regulatory T lymphocytes by TCR crosslinking. <u>PLoS Pathog. 5 (9): e1000596.</u>
Storage	Store at +4°C or at -20°C if preferred.
	This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...) DyLight®800

Goat Anti Rat IgG (STAR73...)

Rabbit Anti Rat IgG (STAR21...)

Rabbit Anti Rat IgG (STAR17...)

FITC

Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) DyLight®649, DyLight®800

Goat Anti Rat IgG (STAR131...) Alk. Phos., Biotin

Goat Anti Rat IgG (STAR69...) FITC

Goat Anti Rat IgG (STAR72...) HRP

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