

Datasheet: MCA2363A647

Description:	RAT ANTI MOUSE CD122:Alexa Fluor® 647
Specificity:	CD122
Other names:	INTERLEUKIN-2 RECEPTOR BETA CHAIN
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	TM-BETA 1
lsotype:	lgG2b
Quantity:	100 TESTS/1ml

Product Details

Applications	from testing within our	llowing applications. This ed publications or person ted for further informatio	al communications from				
	recommendations, plea				5		
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry	•			Neat		
	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 conjugate	d to Alexa Fluor®	647- liq	uid			
Max Ex/Em	Fluorophore	Excitation Max (nn	n) Emi	ssion Max (nm)			
	Alexa Fluor®647	650		665			
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered sa	line					
Preservative	0.09% Sodium Azide						
Stabilisers	1% Bovine Serum A	Albumin					
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml						
Immunogen	Cells from murine IL-2RB ⁺ transformant TART-mBeta.						
External Database	UniProt:						
Links		d reagents					
	Entrez Gene:						

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 <i>et al.</i> 1991</u>).		
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.		
	The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR (<u>BUF041A/B</u>).		
References	 Tanaka, T. <i>et al.</i> (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</u> (7): 2222-8. Leung, K.T. (2011) The tetraspanin CD9 regulates migration, adhesion, and homing of human cord blood CD34+ hematopoietic stem and progenitor cells. <u>Blood. 117: 1840-50.</u> 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. <u>J Immunol. 188: 4149-57.</u> Mertens, J. <i>et al.</i> (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. This product is photosensitive and should be protected from light.		
	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.		
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