

## Mouse CD25/IL-2 R alpha Alexa Fluor® 700-conjugated Antibody

Monoclonal Rat IgG<sub>1</sub> Clone # PC61.5.3 Catalog Number: FAB9164N

100 µg

DESCRIPTION		
Species Reactivity	Mouse	
Specificity	Detects mouse CD25/IL-2 R alpha in direct ELISAs.	
Source	Monoclonal Rat IgG <sub>1</sub> Clone # PC61.5.3	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	B6.1 mouse cytotoxic T cell line Accession # P01590	
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm	
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.	
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS			
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.			
	Recommended Concentration	Sample	
Flow Cytometry	0.25-1 μg/10 <sup>6</sup> cells	Mouse Splenocytes	

PREPARATION AND STORAGE		
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Protect from light. Do not freeze.	
	<ul> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>	

## BACKGROUND

IL-2 receptor alpha (IL-2  $R\alpha$ ), also known as CD25, is a 55 kDa type I membrane glycoprotein that belongs to the family of cytokine receptors that utilize the common gamma chain subunit ( $\gamma_c$ ). IL-2  $R\alpha$  is primarily expressed on activated T cells and on regulatory T cells (Treg). The mouse IL-2  $R\alpha$  cDNA encodes a 268 amino acid (aa) precursor that includes a 21 aa signal peptide, a 215 aa extracellular domain (ECD) with two Sushi domains, a 21 aa transmembrane segment, and an 11 aa cytoplasmic domain. Within the ECD, mouse IL-2  $R\alpha$  shares 81% and 58% aa sequence identity with rat and human IL-2  $R\alpha$ , respectively. It shares approximately 15% aa sequence identity with IL-4, -7, -9, -15, and -21 receptor subunits that also complex with  $\gamma_c$ . IL-2  $\gamma_c$  (CD122) and  $\gamma_c$  (IL-2  $\gamma_c$ 

## PRODUCT SPECIFIC NOTICES

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