

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CD5.
Source	Monoclonal Rat IgG _{2A} Clone # 53-7.3
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse thymus or spleen
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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 ⁶ 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 style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Mouse CD5 has been shown to react with a mouse monomorphic CD5 (Ly-1), a Group B member of the scavenger receptor cysteine-rich protein superfamily (1). CD5 is a 67 kDa type I transmembrane glycoprotein found on thymocytes, T cells, and a subset of B cells but not on NK cells (2-6). It is likely a ligand of the B cell differentiation antigen CD72 and is known to associate with CD6 (1). Mouse and human extracellular domains share 55% amino acid sequence identity.

References:

- Martinez, V.G., *et al.* (2011) *Pharmacol. Rev.* **63**:967.
- Ledbetter, J.A. *et al.* (1980) *J. Exp. Med.* **152**:280.
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- Hayakawa, K. *et al.* (1983) *J. Exp. Med.* **157**:202.
- Luo, W. *et al.* (1992) *J. Immunol.* **148**:1630.
- Lanier, L.L. *et al.* (1986) *J. Immunol.* **137**:2735.

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