

## DESCRIPTION

<b>Species Reactivity</b>	Rat
<b>Specificity</b>	Detects rat CD43 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG Clone # W3/13
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Rat thymocyte membrane glycoproteins Accession # P13838
<b>Conjugate</b>	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide.  *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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	Rat splenocytes

## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## BACKGROUND

CD43, also known as Leukosialin, Sialophorin, B-cell differentiation antigen LP-3 and Ly-48, is a type I transmembrane sialylated mucin that is expressed on most leukocytes and some tumor cells. Notably, the membrane expression of CD43 seems to be a characteristic of leukocytes, while cytoplasmic expression without membrane insertion occurs in endothelium and select epithelia. While CD43 restricts leukocyte adhesion and modulates T cell activation, these activities are context specific. CD43 can both induce and protect against apoptosis, and can either promote or block cell adhesion. In mouse, CD43 is synthesized as a 378 amino acid (aa) precursor that contains a 7 aa signal sequence, a 224 aa extracellular region, a 23 aa TM domain, and a 124 aa cytoplasmic tail. Rat CD43 extracellular region shares a 61% aa sequence identity with the extracellular region in mouse CD43.

## PRODUCT SPECIFIC NOTICES

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