Rat CD43 Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse IgG Clone # W3/13
Catalog Number: FAB10388V
100 µg

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat CD43 in direct ELISAs.
Source	Monoclonal Mouse IgG Clone # W3/13
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Rat thymocyte membrane glycoproteins Accession # P13838
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	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.*

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10^6 cells	Rat 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.** • 12 months from date of receipt, 2 to 8 °C as supplied.

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.

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