Human CLEC-2A
Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 705518

Catalog Number: FAB7219G

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CLEC-2A in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) CLEC-2D, rhCLEC-2, or rhCD69 is observed.
Source	Monoclonal Mouse IgG_1 Clone # 705518
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CLEC-2A Trp49-Leu174 (predicted) Accession # Q6UVW9
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	U937 human histiocytic lymphoma cell line

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

CLEC-2A (C-type lectin domain family 2 member A), also known as PILAR and KACL, is an approximately 35 kDa type II transmembrane glycoprotein in the C-type lectin superfamily. It contains one C-type lectin domain in its extracellular region. Alternate splicing of human CLEC-2A generates an additional isoform with a substitution of 37 amino acids (aa) at the C-terminus. CLEC-2A is upregulated on antigen-activated $CD8^+$ T cells and enhances T cell proliferation through interactions with CD161. It is also expressed on keratinocytes and binds to NKp65/KLRF2, triggering NK cell activation.

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