

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CLEC-2A in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) CLEC-2D, rhCLEC-2, or rhCD69 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 705529
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 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% 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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

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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