

# Human CLEC-2A Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 705518

Catalog Number: FAB7219V  
100 µg

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                                                                            |
| <b>Specificity</b>        | 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.                                                                                                                                                                              |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 705518                                                                                                                                                                                                                                                                                 |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                                                                       |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant human CLEC-2A<br>Trp49-Leu174 (predicted)<br>Accession # Q6UVW9                                                                                                                                                                                                                  |
| <b>Conjugate</b>          | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 nm                                                                                                                                                                                                                                                  |
| <b>Formulation</b>        | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*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  | U937 human histiocytic lymphoma cell line |

## 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><br>● 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<sup>+</sup> 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.

## PRODUCT SPECIFIC NOTICES

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