

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CLEC14A in direct ELISA.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 743940
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human CLEC14A Glu22-Ala397 Accession # Q86T13
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

**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>	2.5 µg/10 <sup>6</sup> cells	See Below
<b>Immunocytochemistry</b>	8-25 µg/mL	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

**DATA**

<p><b>Flow Cytometry</b></p> <p><b>Detection of CLEC14A in HUVEC Human Cells by Flow Cytometry.</b> HUVEC human umbilical vein endothelial cells were stained with Mouse Anti-Human CLEC14A Monoclonal Antibody (Catalog # MAB7436, filled histogram) or isotype control antibody (Catalog # MAB0041, open histogram), followed by PE-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B).</p>	<p><b>Immunocytochemistry</b></p> <p><b>CLEC14A in HUVEC Human Cells.</b> CLEC14A was detected in immersion fixed HUVEC human umbilical vein endothelial cells using Mouse Anti-Human CLEC14A Monoclonal Antibody (Catalog # MAB7436) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to plasma membranes and cytoplasm. View our protocol for <a href="#">Fluorescent ICC Staining of Cells on Coverslips</a>.</p>
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**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

CLEC14A (C-type Lectin domain family 14 member A), also known as EGFR5, is a 51 kDa (predicted) member of the C-type lectin domain family of proteins. It is a type I transmembrane protein, apparently expressed in brain. Mature human CLEC14A is 469 amino acids (aa) in length. It contains a 376 aa extracellular region (aa 22-397) and a 72 aa cytoplasmic domain. The extracellular region shows one C-type lectin like domain (aa 32-175) and an EGF-like region (aa 245-287). Over aa 22-397, human CLEC14A shares 66% and 81% aa identity with mouse and canine CLEC14A, respectively.