

**DESCRIPTION**

<b>Source</b>	Human embryonic kidney cell, HEK293-derived human CLEC2L protein			
	MD	Human IgG <sub>2A</sub> (Pro100-Lys333)	IEGR	Human CLEC2L (Ser90-Thr214) Accession # P0C7M8-1
	N-terminus		C-terminus	
<b>N-terminal Sequence</b>	Met			
<b>Analysis</b>				
<b>Structure / Form</b>	Disulfide-linked homodimer			
<b>Predicted Molecular Mass</b>	41 kDa			

**SPECIFICATIONS**

<b>SDS-PAGE</b>	39-44 kDa, under reducing conditions
<b>Activity</b>	Measured by its binding ability in a functional ELISA. When Recombinant Human CLEC2L Fc Chimera (Catalog # 10204-CL) is immobilized at 5 µg/mL (100 µL/well), the concentration of <a href="#">Recombinant Human Galectin-3</a> (Catalog # 1154-GA) that produces 50% of the optimal binding response is 1.5-12 µg/mL.
<b>Endotoxin Level</b>	<0.10 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS. See Certificate of Analysis for details.

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 500 µg/mL in PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <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>• 3 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**DATA**

**Binding Activity**

When Recombinant Human CLEC2L Fc Chimera (Catalog # 10204-CL) is immobilized at 5 µg/mL, 100 µL/well, [Recombinant Human Galectin-3](#) (Catalog # 1154-GA) binds with an ED<sub>50</sub> of 1.5-12 µg/mL.

**SDS-PAGE**

2 µg/lane of Recombinant Human CLEC2L Fc Chimera (Catalog # 10204-CL) was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by Coomassie® Blue staining, showing bands at 39-44 kDa and 80-90 kDa, respectively.

**BACKGROUND**

C-type lectin domain family 2, member L (CLEC2L), is a type II transmembrane protein of the CLEC2 family of proteins that includes CD69, LLT1, AICL and KACL (1, 2). CLEC2 family members have broad tissue expression, with LLT1, AICL and KACL expressed on B cells, monocytes, and keratinocytes, respectively (3-5). In contrast, CLEC2L, a homodimeric cell surface receptor, is predominantly expressed in the brain and is referred to as the brain-associated C-type lectin (BACL) (6). Mature human CLEC2L includes a 68 amino acid (aa) cytoplasmic domain, a 21 aa transmembrane segment, and a 125 aa extracellular domain (ECD). Within the ECD, human CLEC2L shares 94% aa sequence identity with mouse and rat CLEC2L. Our assay shows that CLEC2L binds to Galectin-3.

**References:**

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5. Rosen, D.B. *et al.* (2008) J. Immunol. **180**:6508.
6. Lysenko, O. *et al.* (2013) PloS One. **8**:e65345.