**DESCRIPTION**

**Species Reactivity**
Human

**Specificity**
Detects human CLEC4D/CLECSF8 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) CLEC6F9, rhCLECSF13, rhOCIL, or rhOCILrp2 is observed.

**Source**
Monoclonal Mouse IgG2b Clone # 413512

**Purification**
Protein A or G purified from hybridoma culture supernatant

**Immunogen**
Mouse myeloma cell line NSO-derived recombinant human CLEC4D/CLECSF8 Gly52-Asn215

**Accession #**
Q8WXI8

**Conjugate**
Phycoerythrin

**Excitation Wavelength:** 488 nm

**Emission Wavelength:** 565-605 nm

**Formulation**
Supplied 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.

**Flow Cytometry**

<table>
<thead>
<tr>
<th>Recommended Concentration</th>
<th>Sample</th>
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<tbody>
<tr>
<td>10 µL/10^6 cells</td>
<td>See Below</td>
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**DATA**

**Flow Cytometry**

Detection of CLEC4D/CLECSF8 in Human Blood Monocytes by Flow Cytometry. Human peripheral blood monocytes were stained with Mouse Anti-Human CLEC4D/CLECSF8 PE-conjugated Monoclonal Antibody (Catalog # FAB2806P, filled histogram) or isotype control antibody (Catalog # IC0041P, open histogram). View our protocol for Staining Membrane-associated Proteins.

**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**

CLEC4D (C-type lectin domain family 4 member D), also known as CLECSF8, CLEC-6, and MCL, is a 30 kDa type II transmembrane (TM) glycoprotein that belongs to the CLR (C-type Lectin Receptor) family of molecules. It is synthesized as a 215 amino acid (aa) protein that contains a 17 aa N-terminal cytoplasmic domain, a 21 aa TM segment, and a 177 aa C-terminal extracellular region. The extracellular region shows a short stalk and a 118 aa CRD (carbohydrate recognition domain). The nature of its carbohydrate ligand is unknown. CLEC4D is restricted to monocytes/macrophages and serves as an endocytic receptor. Homodimers and homotrimers form on the cell surface. The human CLEC4D extracellular region shares 63% aa sequence identity with the mouse extracellular region.

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