

| DESCRIPTION | |
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| Species Reactivity | Human |
| Specificity | Detects human MDL-1/CLEC5A in Western blots. Does not cross-react with recombinant mouse MDL-1. |
| Source | Monoclonal Mouse IgG _{2B} Clone # 283834 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant human MDL-1/CLEC5A Tyr26-Lys188 Accession # Q9NY25 |
| Conjugate | PerCP (Peridinin-chlorophyll Protein Complex) Excitation Wavelength: 482 and 564 nm Emission Wavelength: 675 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 | | |
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| Please Note: Optimal dilutions should be determined by each laboratory for each application. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website. | | |
| | Recommended Concentration | Sample |
| Flow Cytometry | 10 μ L/10 ⁶ cells | See Below |

DATA

Flow Cytometry

Detection of MDL-1/CLEC5A in Human Blood Granulocytes by Flow Cytometry. Human peripheral blood granulocytes were stained with (A) Mouse Anti-Human Siglec-3/CD33 PE-conjugated Monoclonal Antibody (Catalog # FAB1137P, open histogram) and (B) Mouse Anti-Human MDL-1/CLEC5A PerCP-conjugated Monoclonal Antibody (Catalog # FAB2384C, filled histogram) or isotype control antibody (Catalog # IC0041C, 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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied. |

BACKGROUND

MDL-1 is an approximately 40 kDa transmembrane glycoprotein belonging to the C-type lectin superfamily (CLEC5A). MDL-1 is expressed on immature myeloid cells, monocytes, macrophages, dendritic cells, neutrophils, NK cells, and osteocytes. It contains a charged lysine in the transmembrane region that enables it to associate with DAP12 and deliver an activating signal. MDL-1 mediates inflammatory responses during autoimmune arthritis and upon binding to Dengue and Japanese encephalitis viruses. The extracellular domain (ECD) of MDL-1 contains a juxtamembrane stalk region and one C-type lectin domain. Within the ECD, human and mouse MDL-1 share 67% amino acid sequence identity.