

#### DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse MDL-1/CLEC5A. In ELISAs, approximately 50% cross-reactivity with recombinant human MDL-1 is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 226402
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	BaF3 mouse pro-B cell line transfected with mouse MDL-1/CLEC5A
<b>Conjugate</b>	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
<b>Formulation</b>	Supplied 0.2 mg/mL 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	RAW 264.7 mouse monocyte/macrophage 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> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

#### 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, mouse and human MDL-1 share 67% amino acid sequence identity. In mouse, alternative splicing generates a short isoform with a 25 aa deletion in the stalk region.

#### PRODUCT SPECIFIC NOTICES

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