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Monoclonal Mouse IgG_{2B} Clone # 283834 Catalog Number: MAB2384

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DESCRIPTION	
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
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

APPLICATIONS

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Human MDL-1/CLEC5A under non-reducing conditions only
Flow Cytometry	0.25 μg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled with conjugation.	using established conjugation methods. No BSA or other carrier proteins that could interfere

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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 APC-conjugated Monoclonal Antibody (Catalog # FAB1137A) and (B) Mouse Anti-Human MDL-1/CLEC5A Monoclonal Antibody (Catalog # MAB2384, filled histogram) or isotype control antibody (Catalog # MAB0041, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B).

PREPARATION AND STORAGE			
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.		
Shipping	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		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.		
	 12 months from date of receipt, -20 to -70 °C as supplied. 		
	 1 month, 2 to 8 °C under sterile conditions after reconstitution. 		
	6 months -20 to -70 °C under sterile conditions after reconstitution		

6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.

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