

Mouse MDL-1/CLEC5A Antibody

Monoclonal Rat IgG_{2A} Clone # 226402 Catalog Number: MAB1639

Species Reactivity	Mouse	
Specificity	Detects mouse MDL-1/CLEC5A. In ELISAs, approximately 50% cross-reactivity with recombinant human MDL-1 is observed.	
Source	Monoclonal Rat IgG _{2A} Clone # 226402	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	BaF3 mouse pro-B cell line transfected with mouse MDL-1/CLEC5A	
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				
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.				
	Recommended Concentration	Sample		
Flow Cytometry	2.5 μg/10 ⁶ cells	RAW 264.7 mouse monocyte/macrophage cell line		
CyTOF-ready	Ready to be labeled	using established conjugation methods. No BSA or other carrier proteins that could interfere		

with conjugation.

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.	

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.

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