

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse MICL/CLEC12A in direct ELISAs.
Source	Monoclonal Rat IgG _{2A} Clone # 812303
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse MICL/CLEC12A with an N-terminal 9-His tag Thr67-Arg267 Accession # Q504P2
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.

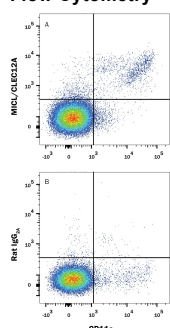
APPLICATIONS

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	0.25 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Flow Cytometry



Detection of MICL/CLEC12A in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes were stained with either (A) Rat Anti-Mouse MICL/CLEC12A Monoclonal Antibody (Catalog # MAB2950) or (B) Rat IgG2a Isotype Control (Catalog # MAB006) followed by Goat Anti-Rat PE-conjugated secondary antibody (Catalog # F0105B) and Rat Anti-Mouse CD11c APC-conjugated Monoclonal Antibody (Catalog # FAB69501A). Cells were first gated on Rat Anti-Mouse CD8 alpha Alexa Fluor® 488-conjugated Monoclonal Antibody-positive cells (Catalog # FAB116G, not shown). View our protocol for [Staining Membrane-associated Proteins](#).

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. <ul style="list-style-type: none"> 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

MICL, also known as killer cell lectin-like receptor 1 (KLR1), is an inhibitory C-type lectin-like receptor that contains an immunoreceptor tyrosine-based inhibitory motif (ITIM). It is a 75 kDa type II membrane protein that is expressed on neutrophils, NK cells, monocytes and dendritic cells. The amino acid sequence of mouse MICL extracellular domain is 53%, 52% and 58% identical to that of human, bovine and canine MICL, respectively.