

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects recombinant mouse MICL/CLEC12A in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant human MICL is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse MICL/CLEC12A Thr67-Arg267 Accession # NP_808354
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 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
Western Blot	0.1 µg/mL	Recombinant Mouse MICL/CLEC12A
Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
Immunocytochemistry	5-15 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

<p>Flow Cytometry</p>	<p>Detection of MICL/CLEC12A in M1 Mouse Cell Line by Flow Cytometry. M1 mouse myeloid leukemia cell line was stained with Goat Anti-Mouse MICL/CLEC12A Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2950, filled histogram) or control antibody (Catalog # AB-108-C, open histogram), followed by Allophycocyanin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0108).</p>	<p>Immunocytochemistry</p>	<p>MICL/CLEC12A in Mouse Splenocytes. MICL/CLEC12A was detected in immersion fixed mouse splenocytes using Goat Anti-Mouse MICL/CLEC12A Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2950) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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.