Human MICL/CLEC12A Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2439B
Catalog Number: MAB29461

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human MICL/CLEC12A in direct ELISAs.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2439B
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human MICL/CLEC12A Thr67-Ala265 Accession # Q5QGZ9
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.

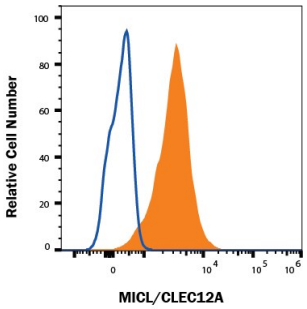
APPLICATIONS

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
Immunocytochemistry	3-25 µg/mL	See Below
Immunohistochemistry	3-25 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.	

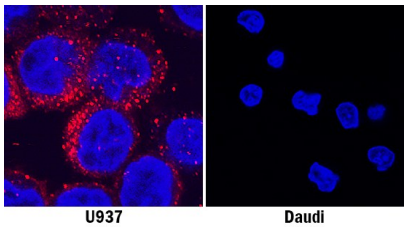
DATA

Flow Cytometry



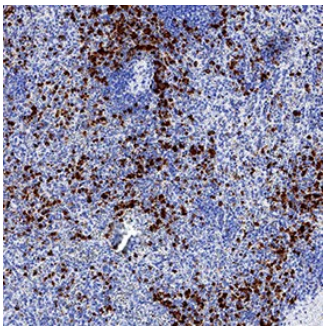
Detection of MICL/CLEC12A in Human Peripheral Blood Granulocytes by Flow Cytometry. Human peripheral blood granulocytes were stained with Rabbit Anti-Human MICL/CLEC12A Monoclonal Antibody (Catalog # MAB29461, filled histogram) or isotype control antibody (Catalog # MAB1050, open histogram), followed by Allophycocyanin-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # F0111). View our protocol for Staining Membrane-associated Proteins.

Immunocytochemistry



MICL/CLEC12A in U937 Human Cell Line. MICL/CLEC12A was detected in immersion fixed U937 human histiocytic lymphoma cell line (left panel; positive staining) and Daudi human Burkitt's lymphoma cell line (right panel; negative staining) using Rabbit Anti-Human MICL/CLEC12A Monoclonal Antibody (Catalog # MAB29461) at 3 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

Immunohistochemistry



MICL/CLEC12A in Human Spleen. MICL/CLEC12A was detected in immersion fixed paraffin-embedded sections of human spleen using Rabbit Anti-Human MICL/CLEC12A Monoclonal Antibody (Catalog # MAB29461) at 3 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in lymphocytes. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

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Human MICL/CLEC12A Antibody

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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

Human MICL (myeloid inhibitory C-type lectin-like receptor; also CLL-1 and KLRL-1) is a 75 kDa member of the group V C-type lectin-like receptor family of molecules. Group V molecules have a lectin-type domain that binds non-sugar ligands. MICL is a 265 amino acid (aa) type II transmembrane (TM) glycoprotein that contains a 200 aa extracellular domain (ECD). Multiple isoforms of MICL are reported. One potentially utilizes an alternate start site that adds 10 aa to the cytoplasmic domain. There is one potential soluble form that lacks the TM segment, and two truncated ECD isoforms. Human MICL ECD is 53%, 65%, and 55% aa identical to the ECD in mouse, dog and cow, respectively.

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