Human NKG2C/CD159c Antibody

Monoclonal Mouse IgG_{2B} Clone # 134522

Catalog Number: MAB1381

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human NKG2C/CD159c. Detects human NKG2C/CD159c as part of the NKG2C/CD94 heterodimer in flow cytometry. No cross-reactivity with the human NKG2A/CD94 heterodimer or with the human CD94 homodimer is detected.
Source	Monoclonal Mouse IgG_{2B} Clone # 134522
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	BaF3 mouse pro-B cell line transfected with human NKG2C/CD159c and CD94
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
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.

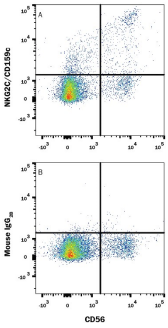
APPLICATIONS

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-reported	Strauss-Albee, D.M. *et al.* (2015) Sci. Transl. Med. **7**: 297ra115. Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Flow Cytometry



Detection of NKG2C/CD159c in Human Blood Lymphocytes by Flow Cytometry. Human peripheral blood lymphocytes were stained with Mouse Anti-Human NCAM-1/CD56 APC-conjugated Monoclonal Antibody (Catalog # FAB2408A) and either (A) Mouse Anti-Human NKG2C/CD159c Monoclonal Antibody (Catalog # MAB1381) or (B) Mouse IgG_{2B} Flow Cytometry Isotype Control (Catalog # MAB0041) followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B). 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.** ● 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

NKG2C, also known as hemoglobin scavenger receptor, is a type II transmembrane protein expressed exclusively in monocytes and macrophages. It is a scavenger receptor cysteine-rich superfamily (SRCR-SF) protein that contains nine SRCR motifs in its extracellular region. MAB1381 displays potent agonistic activity and also blocks the binding of the NKG2C/CD94 heterodimer to HLA-E tetramers (1-3).

References:

1. Alici, E. *et al.* (2008) Blood **111**:3155.
2. Coupel, S. *et al.* (2007) Blood **109**:2806.
3. Fausther-Bovendo, H. *et al.* (2008) AIDS **22**:217.

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