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Human NKG2A/CD159a Antibody

Monoclonal Mouse IgG2A Clone # 131411 Catalog Number: MAB1059

EC	\mathbf{c}		
	URI		

DESCRIPTION	
Species Reactivity	Human
Specificity	Recognizes the human NKG2A/CD94 heterodimer. It does not recognize the NKG2C/CD94 heterodimer or the CD94 homodimer.
Source	Monoclonal Mouse IgG _{2A} Clone # 131411
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	BaF3 mouse pro-B cell line transfected with human NKG2A and CD94
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	Sample	
	Concentration		
Flow Cytometry	0.25 μg/10 ⁶ cells	See Below	
CyTOF-ready	Ready to be labeled using established conjugation.	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



Detection of NKG2A/CD159a in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) were stained with Mouse Anti-Human NCAM-1/CD56 APCconjugated Monoclonal Antibody (Catalog # Catalog # FAB2408A) and either (A) Mouse Anti-Human NKG2A/CD159a Monoclonal Antibody (Catalog # MAB1059) or (B) Mouse IgG2A Isotype Control (Catalog # Catalog # MAB003) followed by Anti-Mouse IgG PEconjugated secondary antibody (Catalog # Catalog # F0101B). View our protocol for Staining Membrane-associated Proteins.





Detection of NKG2A/CD159a in HEK293 Human Cell Line Transfected with Human NKG2A/CD159a and eGFP by Flow Cytometry, HEK293 Human embryonic kidney cell line transfected with either (A) Human NKG2A/CD159a, or (B) Human NKG2B/CD159b and eGFP was stained with Mouse Anti-Human NKG2A/CD159a Monoclonal Antibody (Catalog # MAB1059) followed by APC-conjugated anti-Mouse IgG secondary antibody (Catalog # Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # Catalog # MAB003). 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 membre. 20 to -70 °C under sterile conditions of the reconstitution. 	

BACKGROUND

NKG2A, also known as CD159a, is a type II transmembrane receptor having a single extracellular lectin-like domain and a cytoplasmic ITIM motif. It associates with CD94 and is expressed on NK cells and some activated T cell populations. The NKG2A/CD94 complex delivers an inhibitory signal upon recognition of its ligand, HLA-Ε.

Rev. 8/17/2020 Page 1 of 1



Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373 Europe | Middle East | Africa TEL +44 (0)1235 529449