

Mouse NKG2A/CD159a Antibody

Monoclonal Rat IgG_{2B} Clone # 705829 Catalog Number: MAB6867

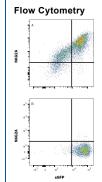
DESCRIPTION		
Species Reactivity	Mouse	
Specificity	Stains mouse NKG2A/CD159a transfectants and not irrelevant transfectants in flow cytometry.	
Source	Monoclonal Rat IgG _{2B} Clone # 705829	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	CHO Chinese hamster ovary cell line transfected with mouse NKG2A/CD159a Accession # Q9Z202	
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

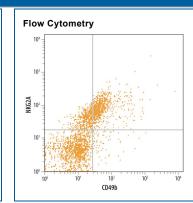
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	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



Detection of NKG2A in HEK293 Human Cell Line transfected with Mouse NKG2A and eGFP by Flow Cytometry HEK293 human embryonic kidney cell line transfected with either (A) mouse NKG2A or (B) irrelevant protein, and eGFP, was stained with Rat anti-mouse NKG2A monoclonal antibody (Catalog # MAB6867) followed by Allophycocyanin-conjugated anti-Rat IgG Secondary Antibody (Catalog # F0113). Quadrant markers were set based on control antibody staining (Catalog # MAB0061, data not shown). Staining was performed using our Staining Membrane-Associated Proteins protocol.



Detection of NKG2A/CD159a in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes were stained with Rat Anti-Mouse NKG2A/CD159a Monoclonal Antibody (Catalog # MAB6867) followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # Catalog # F0113) and Rat Anti-Mouse Integrin a2/CD49b PE-conjugated Monoclonal Antibody (Catalog # Catalog # FAB1740P). Quadrant markers were set based on control antibody staining (Catalog # Catalog # MAB0061).

PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.5 mg/mL

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

NKG2A, also known as CD159a, is a 244 amino acid (aa), ~38 kDa type II transmembrane glycoprotein with a cytoplasmic ITIM motif and a single extracellular lectin-like domain. Within the extracellular domain (aa 94-244), mouse NKG2A shares 71% and 41% aa sequence identity with rat and human NKG2A, respectively. An isoform lacking aa 98-114 has been described. NKG2A associates with CD94 and is coexpressed on NK cells and some activated T cell populations. The NKG2A/CD94 complex delivers an inhibitory signal upon recognition of its murine ligand, Qa-1b (or HLA-E in humans) on antigen presenting cells.

Rev. 8/17/2020 Page 1 of 1

