## RD SYSTEMS a biotechne brand

# Mouse NKG2A/CD159a Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2097C Catalog Number: MAB68671

DESCRIPTION

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Species Reactivity	Mouse				
Specificity	Detects mouse NKG2A/CD159a in direct ELISAs. In Flow Cytometry, no cross-reactivity with mouse NKG2C/CD159c is observed.				
Source	Recombinant Monoclonal Rabbit IgG Clone # 2097C				
Purification	Protein A or G purified from cell culture supernatant				
Immunogen	Synthtic peptide containing 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 Ivophilized 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 <sup>6</sup> 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

	10 <sup>6</sup> A				
:D159a	10 10 <sup>4</sup>		4		
NKG2A/CD159a	103	1			
	10 <sup>2</sup>	102	10 <sup>2</sup> 21	4 10 <sup>5</sup>	10 <sup>6</sup>
	10 <sup>6</sup> B				
0169a	10 <sup>6</sup> B				
IKG2A/CD159a	105				¢.
NKG2A/CD159a	105	102			10 <sup>4</sup>

Detection of NKG2A/CD159a in HEK293 Human Cell Line Transfected with Mouse NKG2A/CD159a and eGFP by Flow Cytometry. HEK293 Human embryonic kidney cell line transfected with either (A) Mouse NKG2A/CD159a, or (B) Mouse NKG2C/CD159c and eGFP was stained with Rabbit Anti-Mouse NKG2A/CD159a Monoclonal Antibody (Catalog # MAB68671) followed by APC-conjugated anti-Rabbit dg Secondary antibody (Catalog # Cotalog # F0111). Quadrant markers were set based on control antibody staining (Catalog # Catalog # MAB1050). 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.		
	<ul> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> </ul>		
	<ul> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> </ul>		
	<ul> <li>6 months20 to -70 °C under sterile conditions after reconstitution.</li> </ul>		

#### 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 lectinlike 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.

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