

## DESCRIPTION

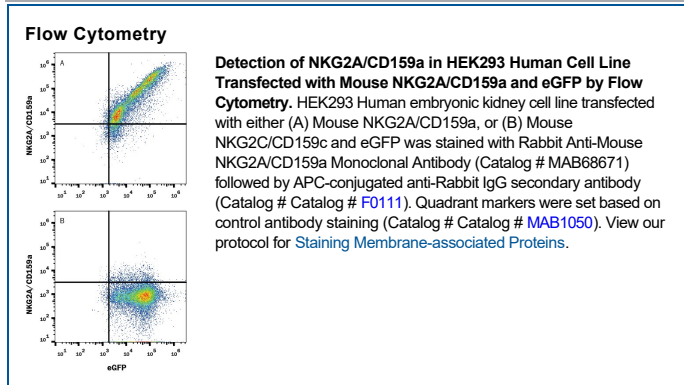
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse NKG2A/CD159a in direct ELISAs. In Flow Cytometry, no cross-reactivity with mouse NKG2C/CD159c is observed.
<b>Source</b>	Recombinant Monoclonal Rabbit IgG Clone # 2097C
<b>Purification</b>	Protein A or G purified from cell culture supernatant
<b>Immunogen</b>	Synthetic peptide containing mouse NKG2A/CD159a Accession # Q9Z202
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25 µg/10 <sup>6</sup> cells	See Below
<b>CytoF<sup>TM</sup>-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 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 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.