

DESCRIPTION

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	Synthetic peptide containing mouse NKG2A/CD159a Accession # Q9Z202
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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	0.25-1 µg/10 ⁶ cells	HEK293 Human Cell Line Transfected with Mouse NKG2A/CD159a and eGFP

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

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.

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