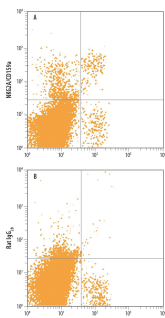


DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse NKG2A/CD159a in direct ELISAs.
Source	Monoclonal Rat IgG _{2B} Clone # 705829
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	CHO Chinese hamster ovary cell line transfected with mouse NKG2A/CD159a Accession # Q9Z202
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.		
	Recommended Concentration	Sample
Flow Cytometry	10 μ L/10 ⁶ cells	See Below

DATA

Flow Cytometry



Detection of NKG2A/CD159a in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes were stained with Rat Anti-Mouse NKp46/NCr1 Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # FAB22252G) and either (A) Rat Anti-Mouse NKG2A/CD159a PE-conjugated Monoclonal Antibody (Catalog # FAB6867P) or (B) Rat IgG_{2B} Phycoerythrin Isotype Control (Catalog # IC013P). View our protocol for [Staining Membrane-associated Proteins](#).

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 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.