

DESCRIPTION

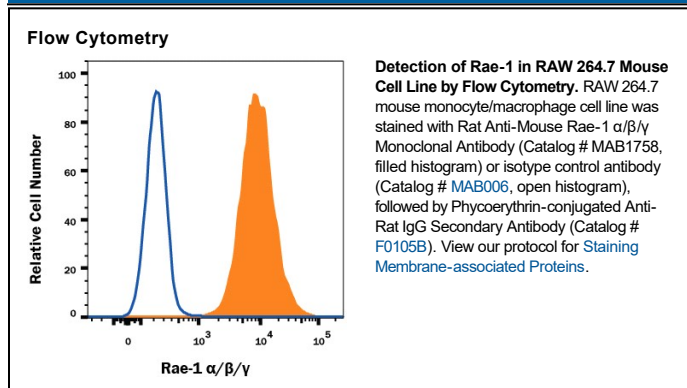
Species Reactivity	Mouse
Specificity	Detects mouse Rae-1 $\alpha/\beta/\gamma$. When tested in flow cytometry against a panel of transfectants expressing different Rae-1 proteins, this antibody recognizes mouse Rae-1 α , β and γ . It does not recognize Rae-1 δ or ϵ .
Source	Monoclonal Rat IgG _{2A} Clone # 199215
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	BaF3 mouse pro-B cell line transfected with Rae-1 β and Mouse myeloma cell line NS0-derived recombinant mouse Rae-1 δ
Endotoxin Level	<0.10 EU per 1 μ g of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 μ m 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 μ m 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 μ g/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.	
Blockade of Receptor-ligand Interaction	In a functional ELISA, 0.2-0.6 μ g/mL of this antibody will block 50% of the binding of 125 ng/mL of Recombinant Mouse NKG2D Fc Chimera (Catalog # 139-NK) to immobilized Recombinant Mouse Rae-1 β Fc Chimera (Catalog # 1198-RA) coated at 1 μ g/mL (100 μ L/well). At 3 μ g/mL, this antibody will block >90% of the binding. This antibody also blocks the binding of Recombinant Mouse NKG2D Fc Chimera to Recombinant Mouse Rae-1 α and Rae-1 γ .	

DATA



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 style="list-style-type: none"> ● 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

The Rae-1 family is a group of closely related GPI-linked proteins that function as ligands for NKG2D. Binding of Rae-1 proteins to NKG2D results in the activation of cytolytic activity and/or cytokine production by effector T cells and NK cells.