

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Rae-1 $\alpha/\beta/\delta/\epsilon$. When tested in flow cytometry against a panel of transfectants expressing different Rae-1 proteins, this antibody strongly recognizes Rae-1 β and Rae-1 δ . It shows weaker staining of Rae-1 α and Rae-1 ϵ transfectants. It does not recognize Rae-1 γ .
Source	Monoclonal Rat IgG _{2A} Clone # 199205
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	BaF3 mouse pro-B cell line transfected with Rae-1 β (Accession # NP_033043) and Mouse myeloma cell line NS0-derived recombinant mouse Rae-1 δ Leu29-Ser227 (Accession # Q9JI58)
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2 mg/mL 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. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	RAW 264.7 mouse monocyte/macrophage cell line

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

Rae-1 α , β , γ , δ and ϵ (retinoic acid early transcript 1) comprise a family of closely related (88-95% amino acid identity) GPI-linked cell surface proteins that function as ligands for mouse NKG2D, an activating receptor expressed on NK and T cells. Rae-1 transcripts are expressed in mouse embryos and several tumor cell lines but are absent from most normal adult tissues. Rae-1 protein expression on tumor cell lines has been implicated in *in vivo* tumor rejection.

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