

# Mouse Rae-1 Pan Specific Antibody

Monoclonal Rat IgG<sub>2A</sub> Clone # 186107 Catalog Number: MAB17582

DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse Rae-1. It recognizes Rae-1 $\alpha$ , $\beta$ , $\delta$ , $\gamma$ and $\epsilon$ .		
Source	Monoclonal Rat IgG <sub>2A</sub> Clone # 186107		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Rae-1δ Leu29-Ser227 Accession # Q9JI58		
Formulation	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

DATA

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 µg/10 <sup>6</sup> cells	See Below
CyTOF-ready	Ready to be labeled u with conjugation.	sing established conjugation methods. No BSA or other carrier proteins that could interfere

# Flow Cytometry

Detection of Rae-1 in RAW 264.7 Mouse Cell Line by Flow Cytometry. RAW 264.7 mouse monocyte/macrophage cell line was stained with Rat Anti-Mouse Rae-1 Pan Specific Monoclonal Antibody (Catalog # MAB17582, filled histogram) or isotype control antibody (Catalog # MAB006, open histogram), followed by Phycoerythrinconjugated Anti-Rat IgG Secondary Antibody (Catalog # F0105B). View our protocol for Staining Membrane-associated Proteins.

# PREPARATION AND STORAGE

Rae-1

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.

- 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

Rae-1α, β, γ, δ and ε 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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