

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Integrin $\alpha 4$ /CD49d.
Source	Monoclonal Rat IgG _{2A} Clone # 265329
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Integrin $\alpha 4$ /CD49d Tyr34-Phe976 Accession # Q792F9
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	2.5 μ g/10 ⁶ cells	B16-F1 mouse melanoma cell line
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

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

Integrin $\alpha 4$, also known as CD49d, associates with either Integrin $\beta 1$ or $\beta 7$ subunits to form heterodimers. Integrin $\alpha 4\beta 1$ is expressed on peripheral lymphocytes, thymocytes, and monocytes, while Integrin $\alpha 4\beta 7$ is expressed on peripheral lymphocytes and a small subset of thymocytes.