Mouse Integrin α5/CD49e Antibody

Monoclonal Rat IgG_{2B} Clone # 235112

Catalog Number: MAB1754

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Integrin α5/CD49e in direct ELISAs and Western blots.
Source	Monoclonal Rat IgG_{2B} Clone # 235112
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Integrin α5/CD49e Phe45-Asn999 (Gln68Glu) Accession # P11688
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

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
Western Blot	1 µg/mL	Recombinant Mouse Integrin α5/CD49e
Flow Cytometry	2.5 µg/10^6 cells	B16-F1 mouse melanoma cell line
Immunocytochemistry	8-25 µg/mL	Immersion fixed L-929 mouse fibroblast 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.** ● 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 α5 subunit, also called CD49e, associates with the Integrin β1 subunit (CD29) to form the VLA-5 complex. It is expressed on thymocytes, mast cells, activated T lymphocytes, and some mouse cell lines. It functions as a receptor for fibronectin (1-4).

References:

1. Springer, T.A. *et al.* (1982) Immunol. Rev. **68**:171.
2. Kinashi, T. and T.A. Springer (1994) Blood Cells **20**:25.
3. Halvorson, M.J. *et al.* (1995) J. Immunol. **55**:4567.
4. Uhlenkott, E.C. *et al.* (1996) Clin. Exp. Metastasis **14**:125.

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