

Human Integrin α5/CD49e Antibody

Monoclonal Mouse IgG1 Clone # 238307 Catalog Number: MAB1864

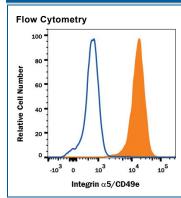
DESCRIPTION

| DESCRIPTION | | |
|--------------------|---|--|
| Species Reactivity | Human | |
| Specificity | Detects human Integrin α5/CD49e. | |
| Source | Monoclonal Mouse IgG ₁ Clone # 238307 | |
| Purification | Protein A or G purified from hybridoma culture supernatant | |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant human Integrin α5/CD49e Phe42-Tyr995 Accession # P08648 | |
| Endotoxin Level | <0.10 EU per 1 µg of the antibody by the LAL method. | |
| Formulation | h 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

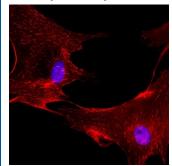
| Please Note: Optimal dilutions should be dete | rmined by each laboratory for each application. General Protocols an | e available in the Technical Information section on our website. |
|---|---|--|
| | Recommended Concentration | Sample |
| Flow Cytometry | 0.25 μg/10 ⁶ cells | See Below |
| Immunocytochemistry | 8-25 µg/mL | Immersion fixed IMR-90 human lung fibroblast cell line |
| CyTOF-ready | Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere w conjugation. | |
| Adhesion Activation | The adhesion of K562 human chronic myelogenous leukemia cells (5 x 10 ⁴ cells/well) to immobilized Bovine Fibronectin (Catalog # 1030-FN, 10 μg/mL, 100 μL/well) was maximally enhanced (2-2.5 fold) by pre-treatment of cells with 500 ng/mL of the antibody. | |

DATA



Detection of Integrin alpha 5/CD49e in K562 Human Cell Line by Flow Cytometry. K562 human chronic myelogenous leukemia cell line was stained with Mouse Anti-Human Integrin alpha 5/CD49e Monoclonal Antibody (Catalog # MAB1864, filled histogram) or isotype control antibody (Catalog # Catalog # MAB002, open histogram) followed by APCconjugated anti-Mouse IgG Secondary Antibody (Catalog # Catalog # F0101B). View our protocol for Staining Membraneassociated Proteins.

Immunocytochemistry



Integrin α5/CD49e in IMR-90 Human Cell Line. Integrin a5/CD49e was detected in immersion fixed IMR-90 human lung fibroblast cell line using Mouse Anti-Human Integrin a5/CD49e Monoclonal Antibody (Catalog # MAB1864) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cell membrane and cytoplasm. Staining was performed using our protocol for Fluorescent ICC Staining of Non-adherent Cells

| 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

The Integrin α5 subunit, also called CD49e, associates with the Integrin β1 subunit (CD29) to form the VLA-5 complex. It functions as a receptor for fibronectin and is expressed on fibroblasts, endothelial cells, epithelial cells, platelets and some melanoma cell lines (1, 2).

References:

- 1. Springer, T.A. et al. (1982) Immunol. Rev. 68:171.
- 2. Te Velde, A. et al. (1988) J. Immunol. 140:1548.

Rev. 8/20/2021 Page 1 of 1



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