



MOUSE ANTI-HUMAN INTEGRIN alpha3/beta1 [VLA-3] MONOCLONAL ANTIBODY

CATALOG NUMBER:	MAB1992	QUANTITY:	100 µg
LOT NUMBER:		CONCENTRATION:	0.1 mg/mL
CLONE NAME:	M-KID2	HOST/ISOTYPE:	Ms IgG ₁
ALTERNATE NAMES:	VLA-3		

BACKGROUND: Integrins are a family of dimeric proteins that mediate cell-cell and extracellular matrix adhesion. Each VLA subtype (VLA-1, VLA-2, VLA-3, VLA-4, VLA-5) is composed of a distinct alpha subunit noncovalently associated with a common beta subunit, as an alpha-beta dimer. Integrin VLA-3 (very late antigen alpha3/beta1) is a cell surface receptor that binds to fibronectin, laminin, collagens type I and VI. VLA-3 is typically restricted in normal tissue but is widely expressed in many cultured tumor cells and correlates with the degree of invasiveness of malignant melanoma cells.

SPECIFICITY: Recognizes an epitope related to the VLA-3 complex (alpha3/beta1 integrin). Specificity was determined by immunoprecipitation from a detergent extract of ³⁵S-methionine labeled KJ29 cells.

APPLICATIONS: Immunoprecipitation: Under non-reducing conditions, two chains recognized with apparent molecular weights of 110 and 150 kDa. In the presence of a reducing agent (2% B-ME), a single molecular species of 130 kDa is detected. Under reducing conditions both alpha3 and beta1 subunits run with the same apparent molecular weight.

Immunohistochemistry: Acetone-fixed paraffin-embedded tissues

Immunocytochemistry/FACS

EIA

RIA

Optimal working dilutions must be determined by the end user.

SPECIES REACTIVITY: Human. Reactivity with other species has not been confirmed.

IMMUNOGEN: Human renal carcinoma cell line (KJ29).

CONTROL: Cell line: KJ29 renal carcinoma adherent cells
Tissue: Kidney; antibody reacts with basal layer podocytes and basement membrane of distal tubules.

PRESENTATION: Immunoglobulin purified by Protein A. Purified immunoglobulin in PBS and 0.05% sodium azide as preservative.

STORAGE/HANDLING: Maintain at 2-8°C in undiluted aliquots for up to 12 months from date of receipt.



REFERENCES:

Yamamoto, H et al. (2001). alpha2,6-Sialylation of Cell-Surface N-Glycans Inhibits Glioma Formation in Vivo. *Canc Res* **61**:6822-6829.

Bartolazzi, A. Et al. (1991). Generation and Characterization of the Murine Monoclonal Antibody M-KID 2 to VLA-3 Integrin. *Hybridoma* **10(6)**:707-720.

Hynes, RO (1987). Integrins: a family of **cell** surface receptors. *Cell* **48**:549-554.

Hemler, ME et al. (1987). The VLA protein family. Characterization of five distinct cell surface heterodimers each with a common 130,000 molecular weight beta subunit. *J. Biol. Chem.* **262**:3300-3309.

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