



MOUSE ANTI-INTEGRIN α V β 6 MONOCLONAL ANTIBODY

CATALOG NUMBER: MAB2077Z

LOT NUMBER:

QUANTITY: 100 μ g

CONCENTRATION: 1 mg/mL

SPECIFICITY: Monoclonal antibody MAB2077Z, raised by immunizing β 6 knockout mice with wild type murine keratinocytes, recognizes human and murine α V β 6 by flow cytometry and immunoprecipitation and has blocking activity against murine and human α V β 6. Because the antibody was raised in knockout mice, it is likely to recognize the receptor in other species, however it has been evaluated only in human and mouse.

IMMUNOGEN: The antibody is specific for α V β 6 and does not recognize α V or other α V integrins. Immunization of β 6 knockout mice with wild type murine keratinocytes.

ISOTYPE: IgG_{2a}

CLONE NAME: 10D5

APPLICATIONS: *Flow cytometry:* Effective for mouse and human. Flow cytometry should be done with buffers containing 1 mM Mg, since the epitope recognized by this antibody is divalent cation-dependent.

Immunoprecipitation: Effective; however because this antibody is an IgG_{2a}, protein G or rabbit anti-mouse IgG is helpful for capture.

Function blocking: Inhibition of α V β 6-mediated cell adhesion and cell migration are achieved at a concentration of 100 μ g/mL using beta6 transfected cells tested against TGFbeta LAP (Munger et al, 1999).

NOTE: Cell lines adhere to simple ligands (e.g. fibronectin) using more integrins than α V β 6, so it would be necessary to also block other integrins (e.g. with anti-beta1 antibody) to see any effect of 10D5 on adhesion to fibronectin, for example. H441 cells, which naturally express high levels of α V β 6 can be used as a positive control.

Not effective for western blot or immunohistochemistry.

Optimal working dilutions must be determined by end user.

SPECIES REACTIVITIES: Human, rat and mouse. Other species not tested.

FORMAT: Purified immunoglobulin

PRESENTATION: Sterile-filtered liquid at 1 mg/mL in PBS, containing no preservatives.



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

REFERENCES: Munger JS, Huang X, Kawakatsu H, Griffiths MJ, Dalton SL, Wu J, Pittet JF, Kaminski N, Garat C, Matthay MA, Rifkin DB, Sheppard D (1999) "The integrin alpha v beta 6 binds and activates latent TGF beta 1: a mechanism for regulating pulmonary inflammation and fibrosis."
Cell **96:3** 319-28.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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