



Monoclonal Anti-human Integrin β 6 Antibody

ORDERING INFORMATION

Catalog Number: MAB41551

Clone: 437216

Lot Number: CAQJ02

Size: 100 μ g

Formulation: 0.2 μ m filtered solution in PBS
with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human Integrin β 6

Immunogen: CHO-derived rhIntegrin β 6

Ig class: mouse IgG_{2b}

Recommended Application:
Western blot

Other Application:
Direct ELISA

Background

Integrin beta 6 (ITGB6) is a 95 kDa member of the integrin beta family. It forms noncovalent heterodimers with Integrin α V and appears on epithelia following injury or inflammation. It activates TGF- β and assists keratinocyte migration. Human Integrin β 6 is a type I transmembrane glycoprotein that is 767 aa in length. It contains a 688 aa extracellular domain (ECD) (aa 22 - 709) that incorporates a 241 aa VWF-A domain. Over aa 22 - 707, human Integrin β 6 ECD shares 90% and 93% aa sequence identity with mouse and pig Integrin β 6 ECD, respectively.

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, CHO-derived, recombinant human Integrin β 6 (rhIntegrin β 6; aa 31 - 992; Accession # P18564). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.

Formulation

Lyophilized from a 0.2 μ m filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.2 mL of PBS is used, the antibody concentration will be 500 μ g/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody detects rhIntegrin β 6 in direct ELISAs and Western blots. In Western blots, this antibody shows 40% cross-reactivity with rhIntegrin β 2 under reducing conditions and no cross-reactivity with rhIntegrin β 1, 3, 5, 7 or 8.

Applications

Western blot - This antibody can be used at 1 - 2 μ g/mL with the appropriate secondary reagents to detect human Integrin β 6. Using a colorimetric detection system, the detection limit for rhIntegrin β 6 is approximately 20 ng/lane and 50 ng/lane under non-reducing and reducing conditions, respectively. Chemiluminescent detection will increase sensitivity by 5 to 50 fold.

Direct ELISA - This antibody can be used at 0.5 - 1.0 μ g/mL with the appropriate secondary reagents to detect human Integrin β 6. The detection limit for rhIntegrin β 6 is approximately 2.5 ng/well.

Optimal dilutions should be determined by each laboratory for each application.

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