# Human Integrin β6 Antibody

Monoclonal Mouse $IgG_{2B}$ Clone # 437211

Catalog Number: MAB4155

## DESCRIPTION

| | |
|---|---|
| **Species Reactivity** | Human |
| **Specificity** | Detects human Integrin β6 in direct ELISAs. |
| **Source** | Monoclonal Mouse $IgG_{2B}$ Clone # 437211 |
| **Purification** | Protein A or G purified from hybridoma culture supernatant |
| **Immunogen** | Chinese hamster ovary cell line CHO-derived recombinant human Integrin αVβ6<br>Phe31-Val992 (Integrin αV) and Gly22-Asn707 (Integrin β6)<br>Accession # P18564 |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS. |

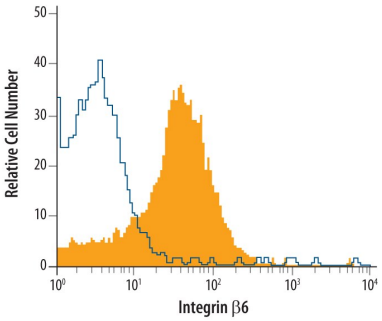
## APPLICATIONS

**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 |
|---|---|---|
| **Flow Cytometry** | 0.25 µg/$10^6$ cells | See Below |
| **Immunocytochemistry** | 8-25 µg/mL | See Below |
| **CyTOF-ready** | Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation. | |

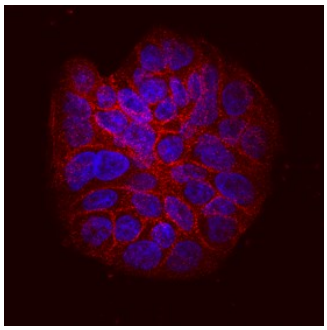
## DATA

### Flow Cytometry



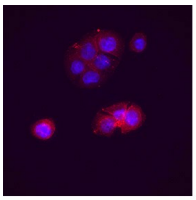

**Detection of Integrin β6 in HT-29 Human Cell Line by Flow Cytometry.** HT-29 human colon adenocarcinoma cell line was stained with Human Integrin ß6 Monoclonal Antibody (Catalog # MAB4155, filled histogram) or isotype control antibody (Catalog # MAB0041, open histogram), followed by Allophycocyanin-conjugated Anti-Mouse IgG $F(ab')_2$Secondary Antibody (Catalog # Catalog # F0101B).

### Immunocytochemistry

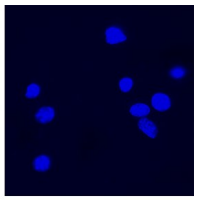


**Integrin β6 in HT-29 Human Cell Line.** Integrin ß6 was detected in immersion fixed HT-29 human colon adenocarcinoma cell line using Mouse Anti-Human Integrin ß6 Monoclonal Antibody (Catalog # MAB4155) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI(blue). Specific staining was localized to cytoplasm and cell surface. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

### Immunocytochemistry



HT-29 (Positive) cells



A549 (Negative) cells

**Detection of Integrin β6 in HT-29 Human Colon Adenocarcinoma Cell Line (Positive) and A549 Human Lung Carcinoma Cell Line (Negative) Cells .** Integrin β6 was detected in immersion fixed HT-29 human colon adenocarcinoma cell line (positive) and A549 human lung carcinoma cell line (negative) cells using Mouse Anti-Human Integrin β6 Monoclonal Antibody (Catalog # MAB4155) at 25 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 cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.



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Monoclonal Mouse $IgG_{2B}$ Clone # 437211

Catalog Number: MAB4155

## 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.<br>*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.**<br>• 12 months from date of receipt, -20 to -70 °C as supplied.<br>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>• 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

## BACKGROUND

Integrin β6 (ITGβ6) is a 95 kDa member of the Integrin beta family. It forms noncovalent heterodimers with Integrin αV and appears on epithelia following injury or inflammation. It activates TGF-β and assists keratinocyte migration. Human Integrin β6 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 β6 ECD shares 90% and 93% aa sequence identity with mouse and pig integrin β6 ECD, respectively.



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