

# Human Integrin $\beta$ 4/CD104 Alexa Fluor® 350-conjugated Antibody

Monoclonal Mouse IgG<sub>2B</sub> Clone # 422325

Catalog Number: FAB4060U

100 µg

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                                                                            |
| <b>Specificity</b>        | Detects human Integrin $\beta$ 4/CD104 in Western blots. In Western blots, no cross-reactivity with recombinant human Integrin $\beta$ 1, $\beta$ 2, $\beta$ 3, $\beta$ 5, $\beta$ 6, $\beta$ 8, or recombinant mouse Integrin $\beta$ 4 is observed.                                                                            |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 422325                                                                                                                                                                                                                                                                                |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                                                                       |
| <b>Immunogen</b>          | Chinese hamster ovary cell line CHO-derived recombinant human Integrin $\beta$ 4/CD104<br>Asn28-Ser710<br>Accession # P16144                                                                                                                                                                                                     |
| <b>Conjugate</b>          | Alexa Fluor 350<br>Excitation Wavelength: 346 nm<br>Emission Wavelength: 442 nm                                                                                                                                                                                                                                                  |
| <b>Formulation</b>        | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## 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.

|                       | <b>Recommended Concentration</b> | <b>Sample</b>                             |
|-----------------------|----------------------------------|-------------------------------------------|
| <b>Flow Cytometry</b> | 0.25-1 µg/10 <sup>6</sup> cells  | A431 human epithelial carcinoma cell line |

## PREPARATION AND STORAGE

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.                                     |
| <b>Stability &amp; Storage</b> | <b>Protect from light. Do not freeze.</b><br><ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul> |

## BACKGROUND

Integrin  $\beta$ 4 (also GP150 and CD104) is a 150-200 kDa member of the Integrin beta family. It forms noncovalent heterodimers with Integrin  $\alpha$ 6 and participates in the formation of epithelial hemidesmosomes. Human Integrin  $\beta$ 4 is a type I transmembrane glycoprotein that is 1795 amino acids (aa) in length. It contains a 683 aa extracellular domain (ECD) (aa 28-710) and a large 1089 aa cytoplasmic region. Two ECD alternative splice forms may exist. One shows an 84 aa substitution for the 84 aa between aa 621-704. A second shows a 144 aa substitution for the first 704 amino acids. Human  $\beta$ 4 ECD shares 88% aa sequence identity with mouse  $\beta$ 4 ECD.

## PRODUCT SPECIFIC NOTICES

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