

## DESCRIPTION

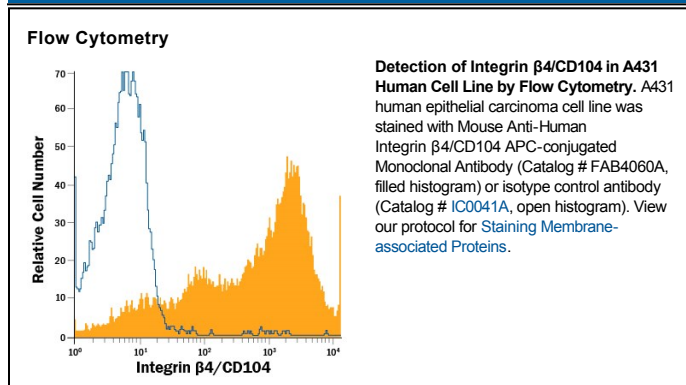
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Integrin $\beta$ 4/CD104 in Western blots. In Western blots, no cross-reactivity with recombinant human Integrin $\beta$ 1, $\beta$ 2, $\beta$ 3, $\beta$ 5, $\beta$ 6, $\beta$ 8, or recombinant mouse Integrin $\beta$ 4 is observed.
<b>Source</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 Asn28-Ser710 Accession # P16144
<b>Conjugate</b>	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
<b>Formulation</b>	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *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.

	Recommended Concentration	Sample
<b>Flow Cytometry</b>	10 $\mu$ L/10 <sup>6</sup> cells	See Below

## DATA



## 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> ● 12 months from date of receipt, 2 to 8 °C as supplied.

## BACKGROUND

Integrin  $\beta$ 4 (also GP150 and CD104) is a 150–200 kDa member of the integrin beta family of proteins. It forms noncovalent heterodimers with integrin  $\alpha$ 6 and participates in the formation of epithelial hemidesmosomes by binding Plexin 1A. Integrin  $\alpha$ 6 $\beta$ 4 also binds Laminin. 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. One ECD alternate splice form is reported. 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.