

## DESCRIPTION

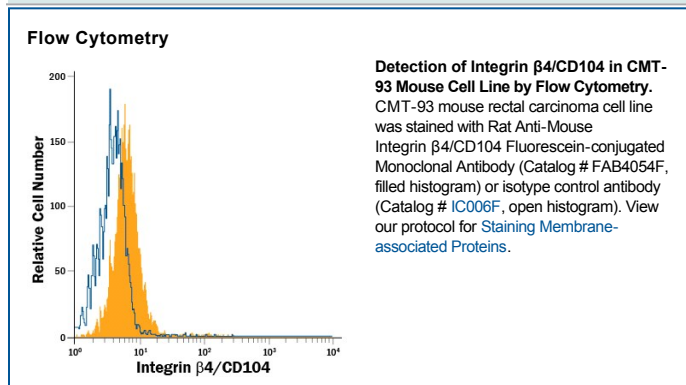
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse Integrin $\beta$ 4/CD104 in direct ELISAs and Western blots. Does not cross-react with recombinant mouse Integrin $\beta$ 1, $\beta$ 2, $\beta$ 6, $\beta$ 7, or recombinant human Integrin $\beta$ 3.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 308601
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant mouse Integrin $\beta$ 4/CD104 Asn29-Ser711 Accession # NP_001005608
<b>Conjugate</b>	Fluorescein Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm (FITC)
<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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<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> <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 known as CD104, is a 200 kDa type I transmembrane (TM) glycoprotein that associates only with Integrin  $\alpha$ 6/CD49f. Integrin  $\alpha$ 6 $\beta$ 4 is predominantly expressed by epithelial cells, binds laminins, and is essential for formation of hemidesmosomes and connection of the dermis to the epidermis. Mouse integrin  $\beta$ 4 contains a 680 amino acid (aa) extracellular domain (ECD) with a metal-binding site and four cysteine-rich repeats, a 22 aa TM segment and an unusually long 1073 aa cytoplasmic tail that organizes hemidesmosome components. Isoforms with shortened cytoplasmic tails have been described. Mouse and human  $\beta$ 4 ECD show 88% aa identity.