

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Integrin β 4/CD104 in direct ELISAs and Western blots. Does not cross-react with recombinant mouse Integrin β 1, β 2, β 6, β 7, or recombinant human Integrin β 3.
Source	Monoclonal Rat IgG _{2A} Clone # 308601
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse Integrin β 4/CD104 Asn29-Ser711 Accession # NP_001005608
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2 mg/mL 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
Flow Cytometry	0.25-1 μ g/10 ⁶ cells	CMT-93 mouse rectal carcinoma cell line

PREPARATION AND STORAGE

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

BACKGROUND

Integrin β 4, also known as CD104, is a 200 kDa type I transmembrane (TM) glycoprotein that associates only with Integrin α 6/CD29. Integrin α 6 β 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 β 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 β 4 ECD show 88% aa identity.

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