

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Integrin β 7 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human Integrin β 1, β 2, β 3, β 4, β 5, β 6, β 8, recombinant mouse Integrin β 4, or β 7 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 473207
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Integrin β 7 long isoform Glu20-His723 Accession # P26010
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	Human peripheral blood lymphocytes

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

Human Integrin β 7 (also Integrin β P and M290 IEL Ag) is a 120 kDa member of the Integrin beta chain family of molecules. It is a type I transmembrane glycoprotein that contains a 704 amino acid (aa) extracellular domain (ECD) (aa 20-723) and a 52 aa cytoplasmic tail. The ECD contains one von Willebrand factor A domain (aa 150-389) and four cysteine-rich EGF-like repeats. One splice variant exists that shows a deletion of aa 501-648. Integrin β 7 forms a nondisulfide linked heterodimer with α 4 and α E integrins. α 4 β 7 binds fibronectin, VCAM-1 and MADCAM1, while α E β 7 binds E-cadherin. The ECD of human β 7 is 87% aa identical to the ECD of mouse β 7.

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