

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Integrin β 7 in direct ELISAs and Western blots. In direct ELISAs, approximately 20% cross-reactivity with recombinant mouse Integrin β 7 is observed and less than 1% cross-reactivity with recombinant human (rh) Integrin β 7.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
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 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Flow Cytometry	Optimal dilution of this antibody should be experimentally determined.

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. 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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