

Human Integrin β7 Antibody

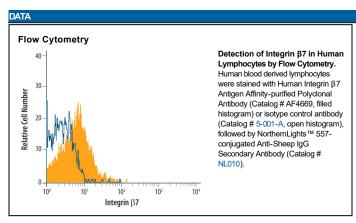
Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF4669

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Integrin β7 in direct ELISAs and Western blots. In direct ELISAs, approximately 20% cross-reactivity with recombinant mouse Integrin β7 is observed and less than 1% cross-reactivity with recombinant human (rh) Integrin β2, rhIntegrin β5, and rhIntegrin β6 is observed.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Integrin β7 long isoform Glu20-His723 Accession # P26010		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

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
Western Blot	0.1 μg/mL	Recombinant Human Integrin β7
Flow Cytometry	0.25 μg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	



PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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 6 integrins. α 4 β 7 binds fibronectin, VCAM-1, and MADCAM1, while α 6 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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