

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Integrin $\beta 7$ in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant mouse (rm) Integrin $\beta 1$, rmIntegrin $\beta 2$, recombinant human Integrin $\beta 3$, and rmIntegrin $\beta 6$ is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse Integrin $\beta 7$ Glu20-His722 Accession # P26011
Formulation	Lyophilized from a 0.2 μ m 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 μ m 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 μ g/mL	Recombinant Mouse Integrin $\beta 7$
Flow Cytometry	2.5 μ g/ 10^6 cells	Mouse lymph node single-cell suspension
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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 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

Integrin $\beta 7$ is a 130 kDa type I transmembrane glycoprotein that belongs to the integrin beta chain family. It heterodimerizes with either Integrin $\alpha 4$ or αE . Whereas, Integrin $\alpha E\beta 7$ is a receptor for E-Cadherin, Integrin $\alpha 4\beta 7$ is a receptor for fibronectin, MAdCAM 1 and VCAM1. The extracellular domain of mouse Integrin $\beta 7$ shares 94% and 87% amino acid sequence identity with that of rat and human Integrin $\beta 7$, respectively.