

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Integrin $\beta 5$ in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse (rm) Integrin $\beta 5$ is observed, and less than 5% cross-reactivity with recombinant human (rh) Integrin $\beta 1$ , rhIntegrin $\beta 3$ , rhIntegrin $\beta 4$ , rhIntegrin $\beta 6$ and rmIntegrin $\beta 7$ is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Chinese hamster ovary cell line CHO cell-derived recombinant human Integrin $\beta 5$ Gly24-Asn719 Accession # P18084
<b>Formulation</b>	Lyophilized from a 0.2 $\mu\text{m}$ 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 $\mu\text{m}$ filtered solution in PBS.

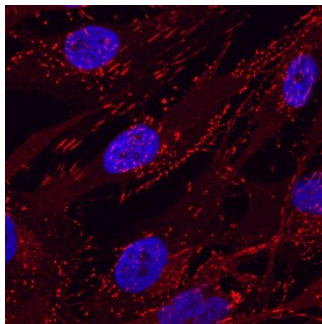
## APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.1 $\mu\text{g}/\text{mL}$	Recombinant Human Integrin $\beta 5$
<b>Flow Cytometry</b>	2.5 $\mu\text{g}/10^6$ cells	MG-63 human osteosarcoma cell line
<b>Immunocytochemistry</b>	5-15 $\mu\text{g}/\text{mL}$	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

## DATA

### Immunocytochemistry



**Integrin  $\beta 5$  in MG-63 Human Cell Line.**  
Integrin  $\beta 5$  was detected in immersion fixed MG-63 human osteosarcoma cell line using Sheep Anti-Human Integrin  $\beta 5$  Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3824) at 10  $\mu\text{g}/\text{mL}$  for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI(blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

Integrin  $\beta 5$  is a 100-110 kDa type I transmembrane glycoprotein that forms a non-disulfide-linked heterodimer with Integrin  $\alpha_v$ . Integrin  $\alpha_v\beta 5$  is a receptor for vitronectin that is expressed on a wide variety of cell types including keratinocytes, fibroblasts, adhesive monocytes, and select endothelium. The 696 amino acid residue Integrin  $\beta 5$  extracellular region contains a vWF-A domain and a cysteine-rich tandem repeat region. Human Integrin  $\beta 5$  shares 91% and 89% amino acid sequence homology with mouse and canine Integrin  $\beta 5$ , respectively.