

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Integrin $\beta$ 8 in direct ELISAs
<b>Source</b>	Recombinant Monoclonal Rabbit IgG Clone # 2723C
<b>Purification</b>	Protein A or G purified from cell culture supernatant
<b>Immunogen</b>	Chinese Hamster Ovary cell line CHO-derived human Integrin $\alpha$ V $\beta$ 8 Human Integrin $\alpha$ V (Phe31-Val992) and Human Integrin $\beta$ 8 (Glu43-Arg684) Accession # NP_002201.1
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ 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 $\mu$ m filtered solution in PBS.

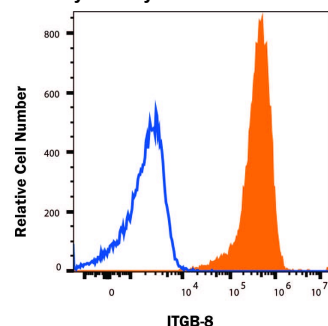
## APPLICATIONS

**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
<b>Flow Cytometry</b>	0.25 $\mu$ g/10 <sup>6</sup> cells	MG-63 human osteosarcoma cell line
<b>Immunocytochemistry</b>	3-25 $\mu$ g/mL	Immersion fixed MG-63 human osteosarcoma cell line

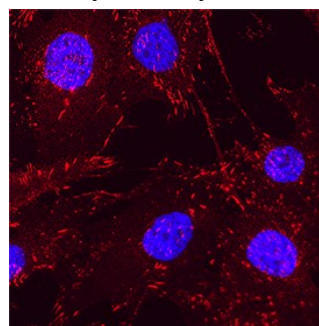
## DATA

### Flow Cytometry



**Detection of Integrin  $\beta$ 8 in MG-63 Human Cell Line by Flow Cytometry.** MG-63 human osteosarcoma cell line was stained with Rabbit Anti-Human Integrin  $\beta$ 8 Monoclonal Antibody (Catalog # MAB2723C, filled histogram) or Rabbit IgG Control Antibody (Catalog # MAB1050, open histogram) followed by Allophycocyanin-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # F0111). Staining was performed using our Staining Membrane-associated Proteins protocol.

### Immunocytochemistry



**Integrin  $\beta$ 8 in MG-63 Human Cell Line.** Integrin  $\beta$ 8 was detected in immersion fixed MG-63 human osteosarcoma cell line using Rabbit Anti-Human Integrin  $\beta$ 8 Monoclonal Antibody (Catalog # MAB47752) at 3  $\mu$ g/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. Staining was performed using our protocol for Fluorescent ICC Staining of Non-adherent Cells.

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 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  $\beta$ 8 (Integrin  $\beta$ 8) is a 90 kDa type I transmembrane glycoprotein of the Integrin family of adhesion molecules. It associates with Integrin  $\alpha$ V to form a receptor for vitronectin, fibrin, and the latency associated peptide (LAP). Binding to LAP promotes the proteolytic release of active TGF- $\beta$  from LAP. Integrin  $\alpha$ V $\beta$ 8 is required for vascular morphogenesis in the embryonic brain and yolk sac. Within the extracellular domain, human Integrin  $\beta$ 8 shares 87% aa sequence identity with mouse and rat Integrin  $\beta$ 8.