

DESCRIPTION

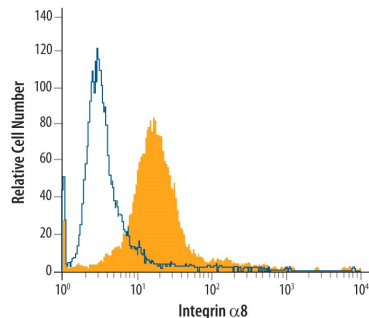
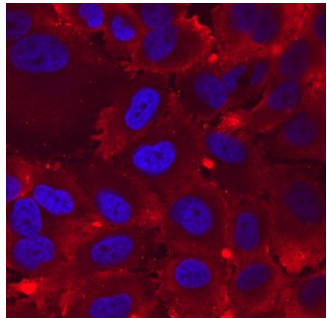
Species Reactivity	Human
Specificity	Detects human Integrin $\alpha 8$ in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 481709
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Integrin $\alpha 8$ Glu610-Leu800 Accession # P53708
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
Flow Cytometry	2.5 μ g/10 ⁶ cells	See Below
Immunocytochemistry	8-25 μ g/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

<p>Flow Cytometry</p>  <p>Detection of Integrin $\alpha 8$ in H4 Human Cell Line by Flow Cytometry. H4 human neuroglioma cell line was stained with Mouse Anti-Human Integrin $\alpha 8$ Monoclonal Antibody (Catalog # MAB6194, filled histogram) or isotype control antibody (Catalog # MAB0041, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B).</p>	<p>Immunocytochemistry</p>  <p>Integrin $\alpha 8$ in H4 Human Cell Line. Integrin $\alpha 8$ was detected in immersion fixed H4 human neuroglioma cell line using Mouse Anti-Human Integrin $\alpha 8$ Monoclonal Antibody (Catalog # MAB6194) at 10 μg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces and cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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 $\alpha 8$ is a 170-200 kDa member of the Integrin family of adhesion molecules. It forms an exclusive noncovalent heterodimer with Integrin $\beta 1$. Integrin $\alpha 8/\beta 1$ promotes both cell adhesion and survival, and is known to bind to fibronectin, LAP-TGF $\beta 1$ and Nephronectin. It is principally expressed in smooth muscle cells. Human $\alpha 8$ is a 1025 amino acid (aa) type I transmembrane glycoprotein. It contains a 974 aa extracellular domain (ECD) (aa 39-1012) and a 30 aa cytoplasmic domain. In the ECD, human $\alpha 8$ shares 90% aa sequence identity with mouse $\alpha 8$ protein.