

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Integrin $\alpha 8$ in direct ELISAs and Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 481709
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Integrin $\alpha 8$ Glu610-Leu800 Accession # P53708
<b>Conjugate</b>	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

## 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>	0.25-1 $\mu$ g/10 <sup>6</sup> cells	H4 human neuroglioma cell line

## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## 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.

## PRODUCT SPECIFIC NOTICES

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