

#### 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 $\alpha 8$<br>Glu610-Leu800<br>Accession # P53708   |
| <b>Conjugate</b>          | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 nm  |
| <b>Formulation</b>        | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*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.

|                       | <b>Recommended Concentration</b>     | <b>Sample</b>                  |
|-----------------------|--------------------------------------|--------------------------------|
| <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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