

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Integrin $\alpha 8$ in direct ELISAs and Western blots.
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
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	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
Flow Cytometry	0.25-1 μ g/10 ⁶ cells	H4 human neuroglioma cell line

PREPARATION AND STORAGE

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

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.

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