

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Integrin $\beta 8$ in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Integrins $\beta 1$, $\beta 2$, $\beta 3$, $\beta 4$, $\beta 5$, $\beta 6$, $\beta 7$, or recombinant mouse Integrin $\beta 8$ is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 416922
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Integrin $\beta 8$ Glu43-Arg684 (predicted) Accession # P26012
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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	A172 human glioblastoma 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 beta 8 (Integrin $\beta 8$) is a 90 kDa type I transmembrane glycoprotein of the Integrin family of adhesion molecules. It associates with Integrin αV to form a receptor for vitronectin, fibrin, and the latency associated peptide (LAP). Binding to LAP promotes the proteolytic release of active TGF- β 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 $\beta 8$.

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