

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Integrin $\beta 6$ in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 437211
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Integrin $\alpha V \beta 6$ Phe31-Val992 (Integrin αV) and Gly22-Asn707 (Integrin $\beta 6$) Accession # P18564
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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	HT-29 human colon adenocarcinoma 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 $\beta 6$ (ITG $\beta 6$) is a 95 kDa member of the Integrin beta family. It forms noncovalent heterodimers with Integrin αV and appears on epithelia following injury or inflammation. It activates TGF- β and assists keratinocyte migration. Human Integrin $\beta 6$ is a type I transmembrane glycoprotein that is 767 aa in length. It contains a 688 aa extracellular domain (ECD) (aa 22-709) that incorporates a 241 aa VWF-A domain. Over aa 22-707, human integrin $\beta 6$ ECD shares 90% and 93% aa sequence identity with mouse and pig integrin $\beta 6$ ECD, respectively.

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