

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Integrin α 2b/CD41 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Integrin α 5, α 8, α V, β 3, β 5, β 6, recombinant mouse Integrin β 2b or β 3 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 745201
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	heterodimer of human Integrin alpha 2B (Leu32-Arg993; R887L) Accession P08514 + human Integrin beta 3 (Gly27-Asp718) Accession P05106
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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	Human peripheral blood platelets

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 α 2b (ITGA2b), also known as CD41 and GPIIb, is a transmembrane glycoprotein that is expressed by megakaryocytes and platelets. It is cleaved into two disulfide-linked chains (114 kDa and 22 kDa) during transit through the Golgi. Integrin α 2b associates with Integrin β 3 to form complexes that interact with Fibrinogen, von Willebrand factor, Fibronectin, and Vitronectin. Integrin α 2b is required for platelet aggregation, and defects lead to disorders of coagulation. Within the extracellular domain, human Integrin α 2b shares 80% and 78% amino acid sequence identity with mouse and rat Integrin α 2b, respectively.

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