Human Integrin α2b/CD41
Alexa Fluor® 594-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 745201

Catalog Number: FAB7616T

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Integrin α2b/CD41 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Integrin α5, α8, αV, β3, β5, β6, recombinant mouse Integrin β2b or β3 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 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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 µg/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.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Integrin α2b (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 α2b associates with Integrin β3 to form complexes that interact with Fibrinogen, von Willebrand factor, Fibronectin, and Vitronectin. Integrin α2b is required for platelet aggregation, and defects lead to disorders of coagulation. Within the extracellular domain, human Integrin α2b shares 80% and 78% amino acid sequence identity with mouse and rat Integrin α2b, respectively.

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