

DESCRIPTION

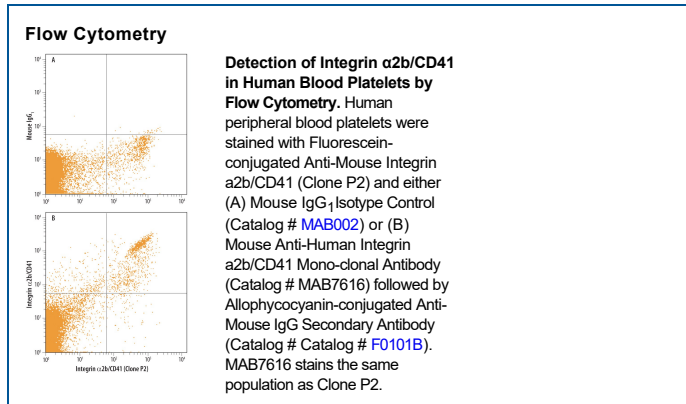
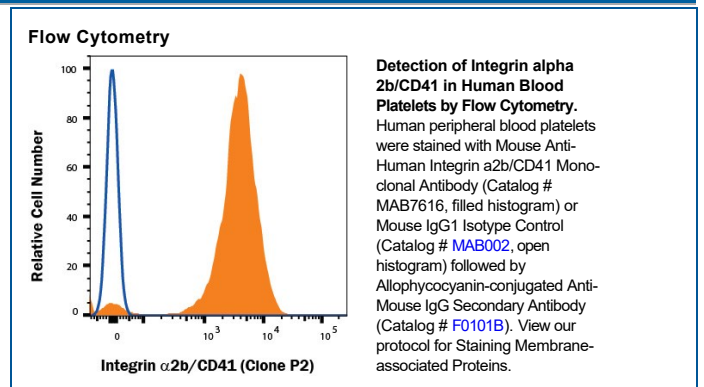
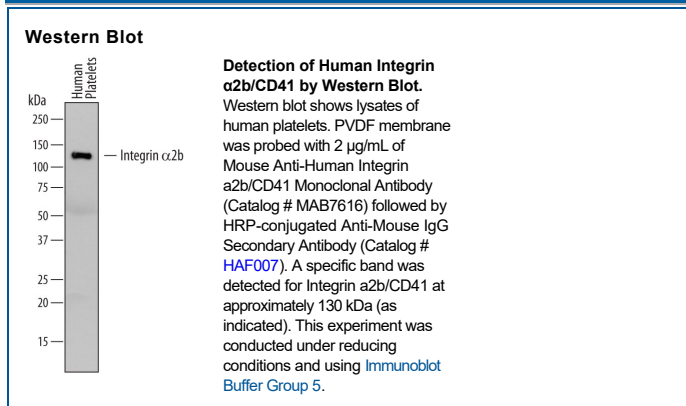
Species Reactivity	Human
Specificity	Detects human Integrin $\alpha 2b/CD41$ in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Integrin $\alpha 5$, $\alpha 8$, αV , $\beta 3$, $\beta 5$, $\beta 6$, recombinant mouse Integrin $\beta 2b$ or $\beta 3$ is observed.
Source	Monoclonal 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
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μ m filtered solution in PBS.

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
Western Blot	2 μ g/mL	See Below
Flow Cytometry	0.25 μ g/ 10^6 cells	See Below
CytoF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.