

## Human Integrin α2b/CD41 Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 745201 Catalog Number: MAB7616

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 <sub>1</sub> 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 μm 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 μm 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 µg/mL	See Below
Flow Cytometry	0.25 µg/10 <sup>6</sup> cells	See Below
CyTOF-ready	Ready to be labeled using established co conjugation.	onjugation methods. No BSA or other carrier proteins that could interfere with

#### DATA

<ul> <li>Detection of Human Integrin (a2b/CD41 by Western Blot.)</li> <li>Western blot shows lysates of human platelets. P/DF membrane</li> <li>was probed with 2 µg/mL of Mouse Anti-Human Integrin a2b/CD41 Monoclonal Antibody</li> <li>(Catalog # MAB7616) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Integrin a2b/CD41 at approximately 130 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 5.</li> </ul>	<ul> <li>Detection of Integrin alpha</li> <li>Detetion of Integrin alpha</li> <li>Detetion of Integrin alp</li></ul>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

on the second se	10'	A					
	10						
	s i						
	ie ie			1.1	1.1.1		
	-	22.			公開		
	10						
	10'	1	985 - S	214	14.4		
A B B C C C C C C C C C C C C C C C C C			10'	10'		10'	10
An and a second	10'	8					
An and a second						£ 1	
W.	10/				Æ		
W.	8						
W.	8.0						
W.	egrin		11 2418 482207	87 1998) 19 19 19	63-89 17 - 17 -		
			1.				
	10						
10' 10' 10' 10'	10'-	- 16		-			10
10 10 10 10 10 Integrin (c2b/CD41 (Clone P2)	×	,	Integrin	10/ 0/25/CD41	ICIONS P.	21	10

Detection of Integrin α2b/CD41 in Human Blood Platelets by Flow Cytometry. Human peripheral blood platelets were stained with Fluorescein- conjugated Anti-Mouse Integrin a2b/CD41 (Clone P2) and either (A) Mouse IgG <sub>1</sub> Isotype Control (Catalog # MAB002) or (B) Mouse Anti-Human Integrin a2b/CD41 Mono-clonal Antibody (Catalog # MAB7616) followed by Allophycocyanin-conjugated Anti-	
(Catalog # MAB7616) followed by	
Mouse IgG Secondary Antibody (Catalog # Catalog # F0101B).	
MAB7616 stains the same population as Clone P2.	

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	<ul> <li>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</li> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>	

Rev. 6/28/2022 Page 1 of 2



**Global** bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373 Europe | Middle East | Africa TEL +44 (0)1235 529449



# Human Integrin α2b/CD41 Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 745201 Catalog Number: MAB7616

## BACKGROUND

Integrin  $\alpha 2b$  (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  $\alpha 2b$  associates with Integrin  $\beta 3$  to form complexes that interact with Fibrinogen, von Willebrand factor, Fibronectin, and Vitronectin. Integrin  $\alpha 2b$  is required for platelet aggregation, and defects lead to disorders of coagulation. Within the extracellular domain, human Integrin  $\alpha 2b$  shares 80% and 78% amino acid sequence identity with mouse and rat Integrin  $\alpha 2b$ , respectively.

Rev. 6/28/2022 Page 2 of 2



**Global** bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373 Europe | Middle East | Africa TEL +44 (0)1235 529449