

## DESCRIPTION

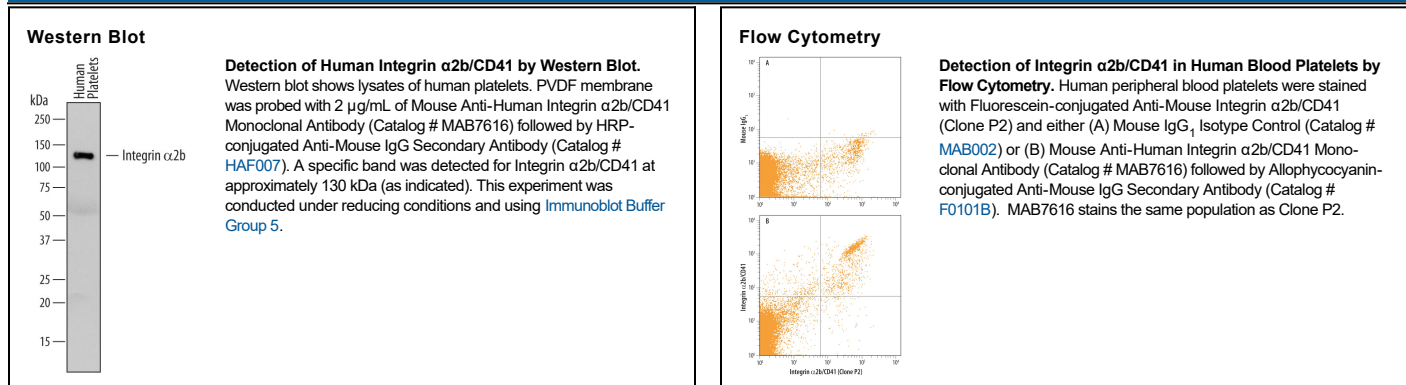
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Integrin $\alpha 2b/CD41$ in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Integrin $\alpha 5$ , $\alpha 8$ , $\alpha V$ , $\beta 3$ , $\beta 5$ , $\beta 6$ , recombinant mouse Integrin $\beta 2b$ or $\beta 3$ is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 745201
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	heterodimer of human Integrin alpha 2B (Leu32-Arg993; R887L) Accession P08514 + human Integrin beta 3 (Gly27-Asp718) Accession P05106
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ 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 $\mu$ 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
<b>Western Blot</b>	2 $\mu$ g/mL	See Below
<b>Flow Cytometry</b>	2.5 $\mu$ g/10 <sup>6</sup> cells	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <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>

## 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.