

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Integrin $\alpha 2b/CD41$ in direct ELISAs.
Source	Monoclonal Rat IgG _{2A} Clone # 386629
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse Integrin $\alpha 2b/CD41$ Leu32-Arg988 Accession # NP_034705
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 as a 0.2 μ m filtered solution in PBS.

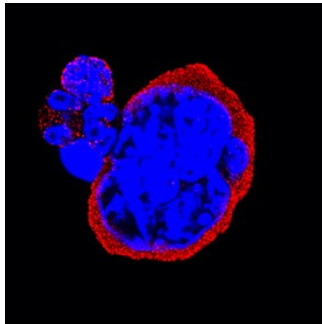
APPLICATIONS

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
Flow Cytometry	0.25 μ g/10 ⁶ cells	Mouse platelets
Immunocytochemistry	8-25 μ g/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Immunocytochemistry



Integrin $\alpha 2b/CD41$ in Mouse Bone Marrow Cells. Integrin $\alpha 2b/CD41$ was detected in immersion fixed mouse bone marrow cells using Rat Anti-Mouse Integrin $\alpha 2b/CD41$ Monoclonal Antibody (Catalog # MAB41181) at 25 μ g/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL014) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces and cytoplasm. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
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 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. ITGA2b associates with integrin $\beta 3$ to form complexes that interact with fibrinogen, von Willebrand factor, fibronectin, and vitronectin. ITGA2b is required for platelet aggregation, and defects lead to disorders of coagulation. Within the extracellular domain, mouse ITGA2b shares 81% and 89% amino acid sequence identity with human and rat ITGA2b, respectively.