

Tissue Sections.

Catalog Number: MAB6950

DESCRIPTION		
Species Reactivity	Mouse	
Specificity	Detects mouse CD11c in direct ELISAs and Western blots. In direct ELISAs, 50%-100% cross-reactivity with recombinant human (rh) Integrin $\alpha$ X $\beta$ 2 and recombinant mouse (rm) Integrin $\alpha$ L is observed, 10%-25% cross-reactivity with rhIntegrin CD11c, rhIntegrin $\alpha$ D $\beta$ 2, and rhIntegrin $\alpha$ L $\beta$ 2 is observed and no cross-reactivity with rhIntegrin $\alpha$ M or rhIntegrin $\beta$ 2 is observed.	
Source	Monoclonal Rat IgG <sub>2B</sub> Clone # 435421	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse CD11c Phe20-Pro1116 Accession # Q9QXH4	
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
Immunohistochemistry	3-25 μg/mL	Immersion fixed paraffin-embedded sections of mouse lung

Western Blot Detection of Mouse CD11c by Western Blot. Western blot shows lysates of mouse lymph node tissue. PVDF membrane was probed with 2 µg/mL of Rat Anti- Mouse CD11c Monoclonal Antibody (Catalog # MAB6950) followed by HRP-conjugated Anti- Rat IgG Secondary Antibody (Catalog # Catalog # HAF005). A specific band was detected for CD11c at approximately 170 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.	Immunohistochemistry

PREPARATION AND STORAGE			
Sterile PBS to a final concentration of 0.5 mg/mL. For liquid material, refer to CoA for concentration.			
Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.			
Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul> <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. 2/24/2025 Page 1 of 2

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## Mouse CD11c Antibody

Monoclonal Rat IgG<sub>2B</sub> Clone # 435421 Catalog Number: MAB6950

## BACKGROUND

CD11c, also known as the Integrin  $\alpha X$  subunit, is a 150 kDa type I transmembrane protein that noncovalently heterodimerizes with the  $\beta 2$  subunit (CD18) to form  $\alpha X/\beta 2$ , also known as p150/p95 and complement receptor type 4 (CR4). Integrin  $\alpha X\beta 2$  is expressed on macrophages, dendritic cells, hairy cell leukemias and some other leukocyte subsets. The 1097 aa mouse CD11c extracellular domain shares 71% and 87% amino acid (aa) identity with human and rat CD11c, respectively. One potential  $\alpha X$  isoform is truncated at aa 828. Some adhesion partners of  $\alpha X\beta 2$  are shared with  $\alpha M\beta 2/CD11b/CD18$  (Complement iC3b, ICAMs, vWF and Fibrinogen) while others (Osteopontin, Thy-1, Plasminogen, Heparin) are unique. Unlike  $\alpha M\beta 2$ , it is not constitutively active.  $\alpha X\beta 2$  adhesion mediates proliferation, degranulation, chemotactic migration, and phagocytosis of complement-opsonized particles.