

DESCRIPTION

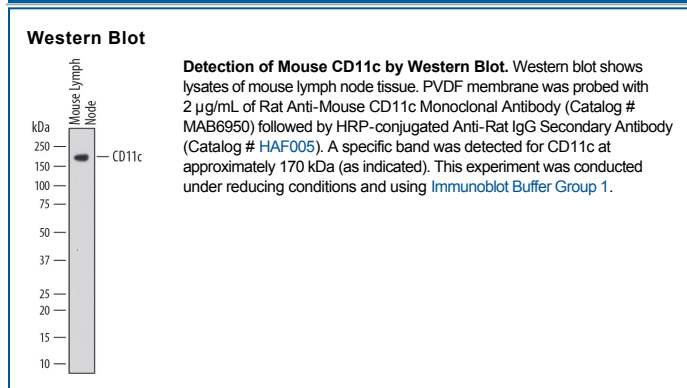
Species Reactivity	Mouse
Specificity	Detects mouse CD11c in direct ELISAs and Western blots. In direct ELISAs, 50%-100% cross-reactivity with recombinant human (rh) Integrin $\alpha\beta 2$ and recombinant mouse (rm) Integrin αL is observed, 10%-25% cross-reactivity with rhIntegrin CD11c, rhIntegrin $\alpha D\beta 2$, and rhIntegrin $\alpha L\beta 2$ is observed and no cross-reactivity with rhIntegrin αM or rhIntegrin $\beta 2$ is observed.
Source	Monoclonal Rat IgG _{2B} 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 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
Western Blot	2 μ g/mL	See Below

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

CD11c, also known as the Integrin αX 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 αX 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.