

## Monoclonal Antibody to CD11c - PE

<b>Alternate names:</b>	CD11 antigen-like family member C, ITGAX, Integrin alpha-X, Leu M5, Leukocyte adhesion glycoprotein p150 95 alpha chain, Leukocyte adhesion receptor p150 95
<b>Catalog No.:</b>	AM05514RP-N
<b>Quantity:</b>	100 Tests
<b>Background:</b>	CD11c (integrin alpha X chain protein) combines with the beta 2 chain (ITGB2) to form a leukocyte specific integrin referred to as inactivated C3b (iC3b) receptor 4 (CR4). The alpha X beta 2 complex seems to overlap the properties of the alpha M beta 2 integrin in the adherence of neutrophils and monocytes to stimulated endothelium cells, and in the phagocytosis of complement coated particles. The CD11c antigen is a marker for hairy cell leukaemia.
<b>Uniprot ID:</b>	<a href="#">Q90XH4</a>
<b>NCBI:</b>	<a href="#">NP_067309.1</a>
<b>GeneID:</b>	<a href="#">16411</a>
<b>Host / Isotype:</b>	Hamster / IgG
<b>Clone:</b>	N418
<b>Immunogen:</b>	Mouse spleen dendritic cells.
<b>Format:</b>	<b>State:</b> Lyophilised purified IgG <b>Purification:</b> Affinity chromatography on Protein G <b>Buffer System:</b> Phosphate buffered saline pH7.4 containing 0.09% Sodium Azide, 1% Bovine Serum Albumin <b>Label:</b> PE – R. Phycoerythrin (RPE) <b>Reconstitution:</b> Reconstitute with 1.0 ml distilled water
<b>Applications:</b>	Flow Cytometry: 1/10; use 10µl of the suggested working dilution to label 10e6 cells in 100µl; The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises the murine homologue of human CD11c, which is a 150/90kD member of the beta 2 integrin family. In mice, CD11c is primarily expressed by dendritic cells. Clone N418 has been reported to enhance antigen specific responses when used to target dendritic cells <i>in vivo</i> . <b>Species:</b> Mouse. Other species not tested.

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- Storage:** Prior to and following reconstitution store the antibody at 2-8°C.  
DO NOT FREEZE!  
This product is photosensitive and should be protected from light.  
Shelf life: one year from despatch.
- Caution:** (A full Health and Safety assessment is available upon request) This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
- General Readings:**
1. Crowley MT, Inaba K, Witmer-Pack MD, Gezelter S, Steinman RM. Use of the fluorescence activated cell sorter to enrich dendritic cells from mouse spleen. J Immunol Methods. 1990 Oct 4;133(1):55-66. PubMed PMID: 2145370.
  2. Metlay JP, Witmer-Pack MD, Agger R, Crowley MT, Lawless D, Steinman RM. The distinct leukocyte integrins of mouse spleen dendritic cells as identified with new hamster monoclonal antibodies. J Exp Med. 1990 May 1;171(5):1753-71. PubMed PMID: 2185332.
  3. Wang, H. et al. (2000) Rapid antibody responses by low-dose, single-step dendritic cell-targeted immunization. Proc. Natl. Acad. Sci.97: 847 - 852.

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