

## Product datasheet for **AM00641BT-N**

### CD11c (ITGAX) Mouse Monoclonal Antibody [Clone ID: 3.9]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	3.9
Applications:	FC, IHC
Recommended Dilution:	<b>Flow Cytometry:</b> We recommend using 1 µg to stain 1.0 x 10 <sup>6</sup> cells. <b>Immunohistochemistry:</b> Stains macrophages in acetone-fixed frozen section of human lung, brain, colon, skin, spleen, thymus and tonsil.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	This antibody recognizes the (Mr 150kDa) alpha chain of the CD11c/CD18 complex. Anti-Human CD11c (Clone 3.9) may be used to stain monocytes and macrophages or hairy cell leukemia cells.
Formulation:	0.01M PBS, pH 7.2 Label: Biotin State: Liquid purified IgG fraction Stabilizer: 1% BSA Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Protein G Chromatography
Conjugation:	Biotin
Storage:	Store undiluted at 2-8°C. <b>DO NOT FREEZE!</b>
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin subunit alpha X
Database Link:	<a href="#">Entrez Gene 3687 Human P20702</a>



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**Background:**

CD11c also known as Integrin alpha-X/beta-2 is a receptor for fibrinogen and recognizes the sequence G-P-R in fibrinogen. A member of the integrin alpha chain family, CD11c has seven FG-GAP repeats and a VWFA domain and is a heterodimer of an alpha and a beta subunit where alpha-X associates with beta-2. CD11c binds with the beta 2 chain (ITGB2) to form a leukocyte-specific integrin referred to as inactivated-C3b (iC3b) receptor 4 (CR4). Recent reports suggest that CD11c helps in capturing Ag in lymphoid tissues and acts as a DC marker, and may even act as an immunotarget for vaccine production and generation of both CD4 and CD8 T-cell responses. The functions of CD11c include phagocytosis of complement coated particles, cell migration, cytokine production by monocytes/macrophages, induction of T cell proliferation by Langerhans cells, leukocyte recruitment, capturing antigens in lymphoid tissues, and the survival of APC. It is predominantly expressed in tissue macrophages, DCs, monocytes and granulocytes.

**Synonyms:**

ITGAX, Integrin alpha-X, Leu M5