

# CD11c (Clone ZM103)

## Mouse Monoclonal Antibody

**Specificity:** Human and Rat. Others-not tested

**Immunogen:** Recombinant human ITGAX protein fragment (aa 637-827)

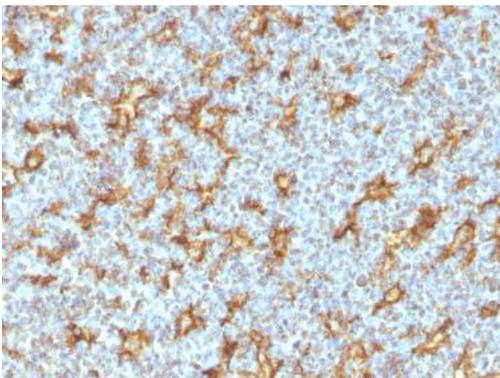
**Ig Class:** IgG2b/ $\kappa$

**Storage:** Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

**Staining procedures:** Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:100-200; *Positive Control:* Tonsil, lymph node. *Cellular Localization:* Membrane. *Intended Use:* In vitro diagnosis (IVD).

**Description:** Recognizes a protein of 145kDa, identified as CD11c. CD11c (ITGAX), a member of the leukointegrin family, shares the same beta subunit with other members of the leukocyte adhesion molecule family, which includes CD11a (LFA-1), CD11b (MAC-1) and CD11d (ITGAD), but has a unique alpha chain. CD11c has been shown to play a role in phagocytosis, cell migration, and cytokine production by monocytes/macrophages as well as induction of T-cell proliferation by Langerhans cells. CD11c is expressed prominently on the plasma membranes of monocytes, tissue macrophages, NK cells, and most dendritic cells (DCs). A lower level of expression is also observed on neutrophils as a result of its high level of expression on most DCs. An antibody to CD11c may aid in identification of lesions with histiocytic origin. It may also been used as a marker for hairy cell leukemia in paraffin-embedded tissues.

**Supplied As:** Purified antibody with 0.2% BSA and 15mM sodium azide.



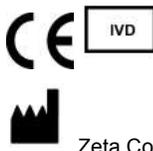
### References:

1. Went PT, et al. *Am J Surg Pathol.* 2005; 29:474-8.
2. Miranda RN, et al. *Mod Pathol.* 2000;1 3:1308-14.
3. Marotta G, et al. *Leuk Lymphoma.* 2000; 37:145-9.

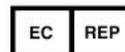
*Formalin-fixed, paraffin-embedded human tonsil stained with anti-CD11c antibody using peroxidase-conjugate and DAB chromogen. Note strong membranous staining of lymphocytes*

**Cat. #Z2414 (1.0 ml)**

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