

CD11c protein-coupled magnetic MicroBeads

Cat. No. CD11c-6943M Lot. No. (See product label)

SPECIFICATION

Product Overview

Species Mouse

Capacity for 2×10^9 total cells

Background

The mouse CD11c antigen is present in dendritic cells in lymphoid organs and blood, in Langerhans cells in the epidermis, in dendritic cell progenitors in the bone marrow, and in in vitro generated bone marrow-derived dendritic cells. In mouse spleen and lymph node, CD11c is expressed at high levels on conventional CD11c+CD45R-mPDCA-1- dendritic cells, and at moderate levels on CD11c+CD45R+ mPDCA-1+ plasmacytoid dendritic cells. CD11c is reported to be weakly expressed on NK cells, B cells, and T cell subsets. About 1–3% of splenocytes, 2% of bone marrow cells, as well as <1% of lymph node cells and thymocytes express CD11c.

Application

DCs isolated with CD11c MicroBeads have been used for phenotypical and functional analyses, e.g. T cell activation, polarization, and tolerance induction in different experimental murine models. CD11c MicroBeads were used to isolate highly pure DCs from spleen and lymph nodes, Peyer's patches, colonic lamina propria, bone marrow, epidermis, lung, liver, or brain.

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