

CD207 protein-coupled magnetic MicroBeads

Cat. No. CD207-4856M Lot. No. (See product label)

SPECIFICATION

Product Overview

Species Human

Capacity for 1×10^9 total cells

Background

Langerin (CD207 antigen), a 40 kDa, glycosylated type II transmembrane C-type lectin receptor, is described as the state-of-the-art marker for identifying Langerhans cells (LCs) in humans and mice. LCs are a subset of dendritic cells (DCs) cells that reside in epithelia; the best studied example of these antigen-presenting cells are LCs of the epidermis. Their unique identifying feature are organelles called Birbeck Granules (BGs), which can be detected by electron microscopy. CD207 is expressed at both the surface membrane and in the cytoplasmatic BGs. CD207 plays a role as an endocytic receptor. It is directly involved in antigen capture and its endocytosis and induces the formation of BGs in immature DCs.

Application

Single-cell suspensions of human epidermis are magnetically labeled with CD207 (Langerin) MicroBeads. The cell suspension is loaded onto a MACS Column, in the magnetic field of a MACS Separator. The magnetically labeled cells are retained within the column. Unlabeled cells, depleted of CD207+ cells, can be collected in the flow through. After removing the column from the magnetic field, CD207+ cells can be eluted as the positively selected cell fraction.

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