

CD8a protein-coupled magnetic MicroBeads

Cat. No. CD8a-4291M Lot. No. (See product label)

SPECIFICATION

Product Overview

Species Rat

Capacity for 1×10^9 total cells

Background

CD8a MicroBeads recognize the immunoglobulin-like domain of the CD8 α chain, which is expressed as a heterodimer with CD8 β on TCR α/β ⁺ and TCR γ/δ ⁺ cytotoxic T cells and on most thymocytes.

As a homodimer of two CD8 α chains, the CD8 antigen is expressed on most NK cells, a major fraction of intestinal intraepithelial lymphocytes, on some activated CD4⁺CD8⁺ double-positive T cells, and on CD8⁺ T cells from athymic rats. CD8a is also expressed by a T cell subset with regulatory functions.

Application

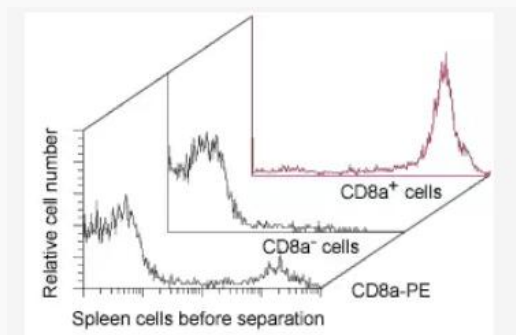
Thymocytes or mature T cells isolated with CD8a MicroBeads can be used for in vitro analysis¹ or in vivo reconstitution of T cells, MHC restriction, tolerance induction, and cytokine expression experiments. Functionality of the isolated cells has been shown by several adoptive transfer experiments. Transfer of isolated CD4⁺ and CD8a⁺ T cells into irradiated recipients results in donor-specific acceptance to heart transplants or type V collagen-induced tolerance to lung allografts. Furthermore, autoimmunity and induction of tolerance after xenogeneic thymus transplantation was studied by adoptive transfer of T cells separated by MACS Technology.

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Analysis



Isolation of CD8a⁺ cells from rat spleen using CD8a MicroBeads, a MidiMACS Separator, and an LS Column.

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