CD8 protein-coupled magnetic MicroBeads

Cat. No. CD8-212M **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Capacity	for 1×10^9 total cells
Background	The CD8 antigen forms a complex together with the T cell receptor and acts as an accessory molecule in the recognition of MHC class I/peptide complexes by the TCR heterodimer on CD8+ cytotoxic T cells. The CD8 molecule consists of either an α/β heterodimer or an α/α homodimer. It is expressed strongly on cytotoxic T cells and dimly on a subset of NK cells. CD8 is found on most thymocytes and on about one third of all peripheral blood T cells. CD8+ cytotoxic T cells play an important role in the killing of virus-infected cells and tumor cells.
Application	Isolation or depletion of CD8+ cytotoxic T cells is performed in many different research fields such as infectious diseases, autoimmune diseases, allergy, and asthma, as well as tumor immunology. Cytotoxic T cells isolated by MACS Technology remain viable and functional. Therefore, they can be used for further functional studies, such as proliferation assays and cytotoxicity assays, but also for the analysis of in vitro cytokine production. CD8 MicroBeads have also been used for the depletion of CD8+ T cells from human PBMCs for immune reconstitution experiments in SCID mice. In combination with CD4 MultiSort MicroBeads, CD8 MicroBeads have been used for the isolation of CD4+CD8+ double-positive thymocytes. Other examples include various studies on viral infections, e.g., in vitro infections of CD8+ cells with HIV6, or monitoring of immune abnormalities in children of HIV-

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	infected mothers.

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