

MSCA1 Antibody-coupled magnetic MicroBeads

Cat. No. MSCA1-391M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

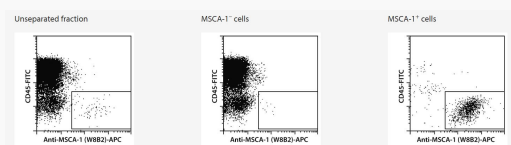
Capacity for 1×10^9 total cells

Background

The Anti-MSCA-1 (W8B2) MicroBeads recognize the mesenchymal stromal cell antigen-1 (MSCA-1), which is identical to tissue non-specific alkaline phosphatase. MSCA-1 was shown to be restricted to MSCs in the CD271bright population in human bone marrow. These CD271brightCD45dim MSCs have a much higher clonogenic capacity compared to the CD271+CD45+ fraction in bone marrow. Therefore, MSCA-1 is a highly specific marker to isolate MSCs with a high proliferative potential from bone marrow. MSCA-1 expression was not found on placenta-derived MSCs after culture.

Antibodies against MSCA-1 show broad interspecies cross-reactivity, such as dog, pig, sheep, goat and monkey.

Analysis



MSCA-1 (W8B2)+ cells were isolated from human bone marrow mononuclear cells (BM-MNCs) using the Anti-MSCA-1 MicroBead Kit, two MS Columns, and a MiniMACS Separator. Cells were stained with Anti-MSCA-1 (W8B2)-APC and

 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

CD45-FITC.

 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