

TRA160 Antibody-coupled magnetic MicroBeads

Cat. No. TRA160-5039M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Capacity for up to 2×10^8 total cells

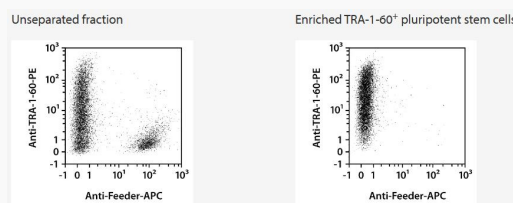
Background

The Anti-TRA-1-60 monoclonal antibody reacts with a pluripotent stem cell-specific antigen expressed on undifferentiated human embryonic stem (ES) cells, induced pluripotent (iPS) cells, embryonal carcinoma (EC) cells, and embryonic germ (EG) cells.^{2,3} The expression of TRA-1-60 on human ES cells is down-regulated upon differentiation. The Anti-TRA-1-60 antibody recognizes a neuraminidase-resistant carbohydrate epitope expressed on podocalyxin, a member of the CD34-related family of sialomucins. Podocalyxin is a transmembrane glycoprotein, which has been implicated in the development of aggressiveness in a variety of cancers including breast cancer and prostate cancer.

Application

Positive selection of undifferentiated TRA-1-60⁺ pluripotent stem cells, for example, human ES and iPS cells.
Efficient enrichment of iPS cells during or after reprogramming.

Analysis



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Pluripotent (TRA-1-60+) iPSCs were isolated from cultures containing spontaneously differentiated iPSCs grown on mouse embryonic feeder cells using Anti-TRA-1-60 MicroBeads, an MS Column, and a MiniMACS Separator. Cells were fluorescently stained with Anti-TRA-1-60-PE (# 130-100-347) and Anti-Feeder-APC after separation and analyzed by flow cytometry using the MACSQuant Analyzer. Cell debris and dead cells were excluded from the analysis based on scatter signals and propidium iodide fluorescence.

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