

# Human Mesenchymal Stem Cell Basics Panel

## General Information

**Catalog Number:** PK30056

**Stability and Storage:** 1 year from receipt at 2 to 8°C

**Formulation:** PBS with 0.09% sodium azide and 0.5% BSA

**Applications:** FC

**Reactivity:** Human

**Size:** 100 tests, 5 µL each per 10<sup>6</sup> cells

## Panel Components

Fluorochrome (ex/em)	Catalog No.	Size	Target	Clone	Isotype	Description
<b>CoraLite Plus 594</b> (594 nm/615 nm)	CL594-65608	100 tests	CD44	F10-44-2	Mouse IgG2a	Positive marker for Mesenchymal Stem Cells
<b>CoraLite Plus 488</b> (493 nm/522 nm)	CL488-98126	100 tests	CD90	241290B2	Rabbit IgG	Positive marker for Mesenchymal Stem Cells
<b>CoraLite Plus 647</b> (654 nm/674 nm)	CL647-98013-2	100 tests	CD105	241196D9	Rabbit IgG	Positive marker for Mesenchymal Stem Cells
<b>PE-Cyanine 7</b> (496, 565 nm/778 nm)	PY7-65564	100 tests	CD73	AD2	Mouse IgG2a	Positive marker for Mesenchymal Stem Cells
<b>CoraLite Plus 405</b> (399 nm/422 nm)	PK31001	100 tests	Lineage Cocktail (CD45, CD34, CD14, CD11b, CD19, HLA-DR)	241670E10, 242069A6, 230332D7, ICRF44, 4G7, L243	Rabbit IgG / Mouse IgG2a	Negative markers for Mesenchymal Stem Cells

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AB/405

FITC/488

CR/594

APC/647

PE-Cyanine7

Lineage Cocktail

CD90 (241290B2)

CD44 (F10-44-2)

CD105 (241196D9)

CD73 (AD2)

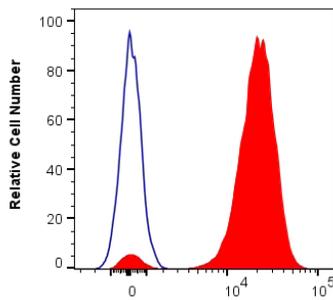
## Product Description

Mesenchymal stem cells (MSCs) are multipotent stromal cells that have the capacity of self-renewal and the potential to differentiate into multiple cell types. MSCs have been found in a variety of tissues.

This panel is designed for the investigation of Human MSCs. It contains a mesenchymal stem cell lineage cocktail and antibodies for MSCs positive markers CD44, CD90, Endoglin/CD105, and CD73.

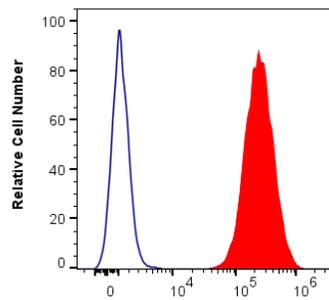
## Validation Data *Sample: Human mesenchymal stem cells*

### CD44 expression



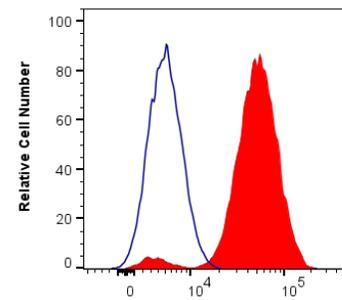
CL594-65608 CD44(F10-44-2),with isotype control

### CD90 expression



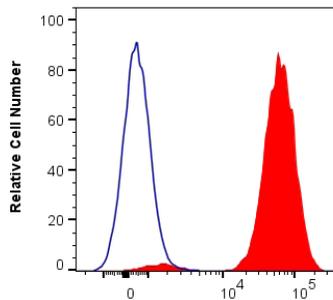
CL488-98126 CD90,with isotype control

### CD105 expression



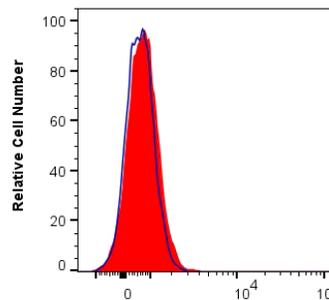
CL647-98013-2 CD105,with isotype control

### CD73 expression



PY7-65564 CD73(AD2),with isotype control

### CD45/CD34/CD14/CD11b/CD19/ HLA-DR expression



CL405 Neg CKTL,with isotype control

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