

## Product Information

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. According to the minimal criteria for defining multipotent mesenchymal stromal cells proposed by the International Society for Cellular Therapy (ISCT) in 2006, MSCs express CD105, CD73 and CD90, and lack expression of CD45, CD34, CD14 or CD11b, CD79 or CD19 and HLA-DR surface molecules. MSCs are also known to express other cell surface markers, such as CD29, CD44, CD146 and CD166.

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.

## Components

Fluorochrome (ex/em)	Catalog No	Size	Target	Clone	Isotype	Description
Coralite Plus 594 (594 nm/615 nm)	<a href="#">CL594-65608</a>	100 tests	CD44	F10-44-2	Mouse IgG2a	Positive marker for Mesenchymal Stem Cells
Coralite Plus 488 (493 nm/522 nm)	<a href="#">CL488-98126</a>	100 tests	CD90	241290B2	Rabbit IgG	Positive marker for Mesenchymal Stem Cells
Coralite Plus 647 (654 nm/674 nm)	<a href="#">CL647-98013-2</a>	100 tests	Endoglin/CD105	241196D9	Rabbit IgG	Positive marker for Mesenchymal Stem Cells
PE-Cyanine7 (496 nm, 565 nm/778 nm)	<a href="#">PY7-65564</a>	100 tests	CD73	AD2	Mouse IgG2a	Positive marker for Mesenchymal Stem Cells
Coralite Plus 405 (399 nm/422 nm)	<a href="#">PK31001</a>	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

## Package

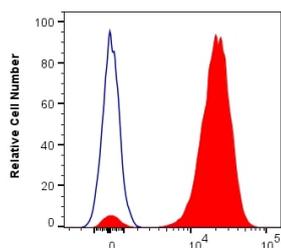
100 tests

## Storage

Storage Buffer: PBS with 0.09% sodium azide and 0.5% BSA.

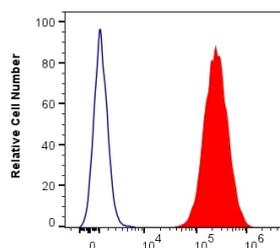
Storage Conditions: Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

## Validation Data



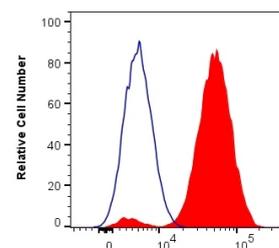
CL594-65608 CD44(F10-44-2),with isotype control

1x10<sup>6</sup> human mesenchymal stem cells were surface stained with 5 ul CoraLite®594 Anti-Human CD44 (F10-44-2) Mouse IgG2a Recombinant Antibody (CL594-65608, Clone: F10-44-2) (red) or Isotype Control (blue). Cells were not fixed.



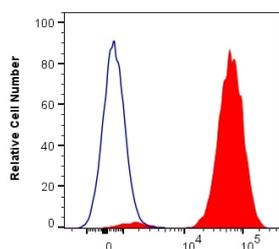
CL488-98126 CD90,with isotype control

1x10<sup>6</sup> human mesenchymal stem cells were surface stained with 5 ul CoraLite® Plus 488 Anti-Human CD90 Rabbit Recombinant Antibody (CL488-98126, Clone: 241290B2) (red) or Isotype Control (blue). Cells were not fixed.



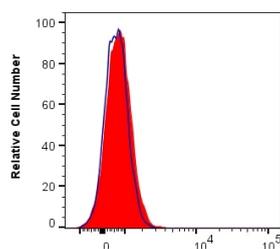
CL647-98013-2 CD105,with isotype control

1x10<sup>6</sup> human mesenchymal stem cells were surface stained with 5 ul CoraLite® Plus 647 Anti-Human Endoglin/CD105 Rabbit Recombinant Antibody (CL647-98013-2, Clone: 241196D9) (red) or Isotype Control (blue). Cells were not fixed.



PY7-65564 CD73(AD2),with isotype control

1x10<sup>6</sup> human mesenchymal stem cells were surface stained with 5 ul PE-Cyanine7 Anti-Human CD73 (AD2) Mouse IgG2a Recombinant Antibody (PY7-65564, Clone: AD2) (red) or Isotype Control (blue). Cells were not fixed.



CL405 Neg CKTL,with isotype control

1x10<sup>6</sup> human mesenchymal stem cells were surface stained with 5 ul CoraLite® Plus 405 anti-Human Mesenchymal Stem Cell Lineage Cocktail (PK31001) (red) or Isotype Control (blue). Cells were not fixed.

For technical support and original validation data for this product please contact

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