

FcZero-rAb® Human Mesenchymal Stem Cell Basics Panel

Catalog Number: PK30060

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, CD79a 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.

Product Component

Fluorochrome (ex/em)	Catalog No.	Size	Target	Clone	Isotype	Description
Coralite Plus 488 (493 nm/522 nm)	CL488-FcA65608	100 tests	CD44	F10-44-2	Rabbit IgG	Positive marker for Mesenchymal Stem Cells
Coralite Plus 647 (654 nm/674 nm)	CL647-FcA98126	100 tests	CD90	241290B2	Rabbit IgG	Positive marker for Mesenchymal Stem Cells
PE-Cyanine7 (496, 565 nm/778 nm)	PY7-FcA98013-2	100 tests	Endoglin/CD105	241196D9	Rabbit IgG	Positive marker for Mesenchymal Stem Cells
PE (496, 565 nm/578 nm)	PE-FcA65564	100 tests	CD73	AD2	Rabbit IgG	Positive marker for Mesenchymal Stem Cells
Coralite Plus 405 (399 nm/422 nm)	PK31002	100 tests	Lineage Cocktail (CD45, CD34, CD14, CD11b, CD19, HLA-DR)	241670E10, 242069A6, 230332D7, ICRF44, 4G7, L243	Rabbit IgG	Negative markers for Mesenchymal Stem Cells

Package

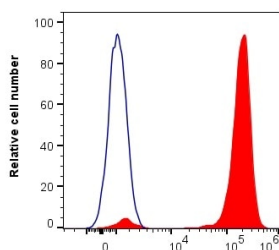
100 tests

Storage

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

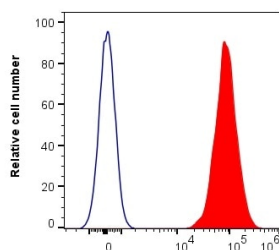
Storage Conditions: Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Validation Data



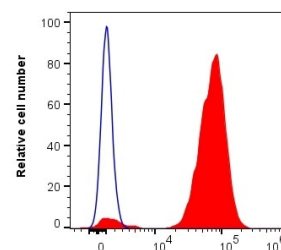
CL488-FcA65608(CD44), with isotype control

1x10⁶ human mesenchymal stem cells were surface stained with PK30060 FcZero-rAb® Human Mesenchymal Stem Cell Basics Panel. The histogram shows the expression of CD44 (red) and isotype control (blue). Cells were not fixed.



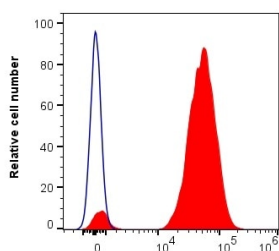
CL647-FcA98126(CD90), with isotype control

1x10⁶ human mesenchymal stem cells were surface stained with PK30060 FcZero-rAb® Human Mesenchymal Stem Cell Basics Panel. The histogram shows the expression of CD90 (red) and isotype control (blue). Cells were not fixed.



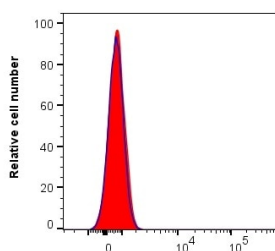
PY7-FcA98013-2(CD105), with isotype control

1x10⁶ human mesenchymal stem cells were surface stained with PK30060 FcZero-rAb® Human Mesenchymal Stem Cell Basics Panel. The histogram shows the expression of Endoglin/CD105 (red) and isotype control (blue). Cells were not fixed.



PE-FcA655649(CD73), with isotype control

1x10⁶ human mesenchymal stem cells were surface stained with PK30060 FcZero-rAb® Human Mesenchymal Stem Cell Basics Panel. The histogram shows the expression of CD73 (red) and isotype control (blue). Cells were not fixed.



CL405 FcZero-rAb® Neg CKTL, with isotype control

1x10⁶ human mesenchymal stem cells were surface stained with PK30060 FcZero-rAb® Human Mesenchymal Stem Cell Basics Panel. The histogram shows the expression of CD45, CD34, CD14, CD11b, CD19, HLA-DR (PK31002, lineage cocktail) (red) and isotype control (blue). Cells were not fixed.

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

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to purchase from any other manufacturer.