Antibody Selection Guide: Stem Cell and Differentiated Cell Markers

Pluripotent Cell Markers

Identify stemness and characterize your pluripotent cells using antibodies against a variety of stem cell markers. The antibodies below can be used to characterize pluripotency and purify embryonic stem (ES) and induced pluripotent stem (iPS) cell lines from contaminating feeder cells and non-stem cells.

Target	Application	Species Reactivity	Product
OCT4, a transcription factor involved in the self-renewal of ES cells	Characterize human pluripotent stem cells	Human	Oct4 (Human), Monoclonal [Cat. No. M221]
SOX-2, a transcription factor required to maintain pluripotency in undifferentiated ES cells	Characterize human pluripotent stem cells	Human	Sox2 (Human), Monoclonal [Cat. No. M223]
LIN-28, an ES cell marker	Characterize human pluripotent stem cells	Human	Lin28 (Human), Monoclonal [Cat. No. M222]
Surface epitope on human ES and iPS cells	Characterize human pluripotent stem cells Separate human ES and iPS cells from feeder cells	Human	hES-Cellect [Cat. No. Y20010]
Surface epitope on human and mouse ES and iPS cells	Characterize pluripotent stem cells	Human, Mouse	ES-Cellect [Cat. No. Y20011]

Differentiated Cell Markers

Identify and characterize differentiated cell types derived from embryonic and induced pluripotent stem cells. The antibodies below can be used to monitor differentiation, identify and sort differentiated cells, and track transplanted stem cells.

Target	Application	Species Reactivity	Product
Nuclear protein expressed in a variety of human tissues, including brain	Detect the migration, engraftment, and differentiation of human cells transplanted into rodents	Human	STEM101 [Cat. No. Y40400]
Cytoplasmic protein expressed in a variety of tissues including brain, liver, and pancreas	Detect the migration, engraftment, and differentiation of human cells transplanted into rodents	Human	STEM121 [Cat. No. Y40410]

Glial fibrillary acidic protein (GFAP)	Identify astrocytes derived from human neural stem cells transplanted into rodents	Human	STEM123 [Cat. No. Y40420]
Human fibroblasts	Characterize and purify human feeder cells Distinguish non-reprogrammed fibroblasts	Human	hFF-Cellect [Cat. No. Y20012]

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