

The MACSima™ Platform with its high-plexity imaging capabilities allows you to push the boundaries of spatial biology. Analyzing hundreds of markers on a single sample you gain unprecedented insight into the spatial context of the plethora of different cell types present in the tumor microenvironment.

MACSima Panel Modules make it easy for you to define which markers are relevant to gather all the information available from a given sample. The resulting high-dimensional data will let you dive deep into the details and ultimately see the bigger picture.

Easily combine individual MACSima Panel Modules to build your high-plex panels with 100+ markers. After defining all relevant biomarkers, just select fitting fluorochrome-conjugated antibodies of your choice from Miltenyi Biotec's catalog of antibodies pre-tested for MACSima Imaging Cyclic Staining (MICS). Based on recombinant antibody technology, they will give you the level of specificity, consistency, and reliability that you need to obtain conclusive results. If required for your experiment, you can simply use any antibody of your choice.

Focus modules

Immuno-oncology core

CD45	CD163
CD3	CD274 (PD-L1)
CD4	CD279 (PD1)
CD8a	Ki-67
FoxP3	Cleaved PARP1
CD56 (NCAM1)	CD31
CD11c (Integrin α-X)	Actin (Smooth Muscle)
CD20	Podoplanin
CD66b	CD326 (EpCAM)
CD68 (Macrosialin)	Pan-Cytokeratin

Immune cell profiling

CD11b (integrin α-M)
CD138 (syndecan-1)
CD14
CD16 (FcγRIII)
CD204 (MSR1)
CD206 (MRC1)
CD45RA
CD45RO
HLA-ABC
HLA-DR
HLA-DR, DP, DQ
Mast cell tryptase
CD15(sLE)

Pan-tumor

Androgen receptor (AR)
CD276 (B7-H3)
CD324 (E-cadherin)
CD44
CD66e (CEACAM5)
Cytokeratin 20
Cytokeratin 7
EGF receptor
ErbB-2 (CD340/HER2)
Estrogen receptor alpha (ESR1)
MART-1 (melan-A)
p16 (CDKN2A)
p53
Progesterone receptor (PGR)
Vimentin
β-Catenin
Bcl-2
Histone H3 pS10

Immune checkpoints

CD134 (OX40)
CD137 (4-1BB)
CD137L (4-1BBL)
CD152 (CTLA-4)
CD154 (CD40L)
CD223 (LAG3)
CD272 (BTLA)
CD273 (PD-L2)
CD276 (B7-H3)
CD278 (ICOS)
CD357 (GITR)
CD366 (TIM-3)
CD40
GITRL
Indolamin-2,3-dioxygenase (IDO)
TIGIT
VISTA (B7-H5)

Cellular structure

CD34
CD90 (THY1)
Collagen I
Collagen IV
Fibronectin

Advanced immune cell profiling

CD103 (integrin α-E)
CD141 (thrombomodulin)
CD208 (DC-LAMP)
CD209 (DC-SIGN)
CD25 (IL2RA)
CD304 (BDCA-4)
CD38 (ADPRC1)
Eomes
GATA3
RORγ(t)
T-bet

Immune function / activation

Beta-2-microglobulin
CD107a (LAMP-1)
CD252 (OX40L)
CD273 (PD-L2)
CD274 (PD-L1)
CD28
CD44
CD69 (CLEC2C)
CD80 (B7-1)
CD86 (B7-2)
Galectin-9
Granzyme B
LYVE-1
Perforin
Peripheral node addressin (PNAd)

LEARN MORE



Check out our portfolio of antibodies pre-tested for MACSima Imaging Cyclic Staining (MICS).

► [miltenyibiotec.com/MICS-antibodies](https://www.miltenyibiotec.com/MICS-antibodies)

► [miltenyibiotec.com](https://www.miltenyibiotec.com)

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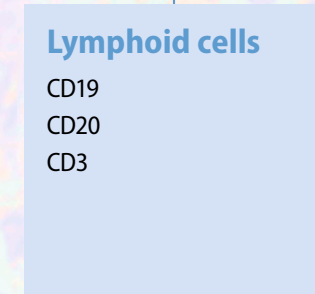
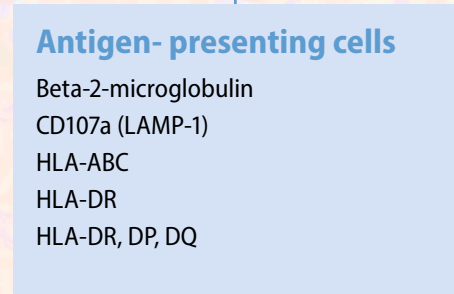
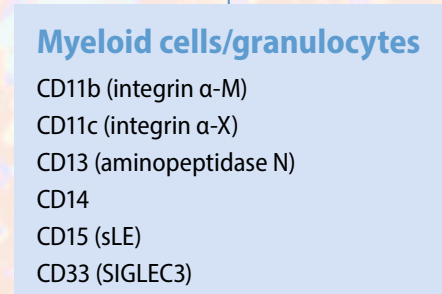
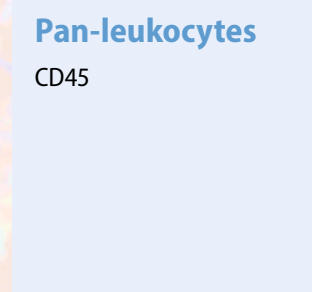
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Cell type modules

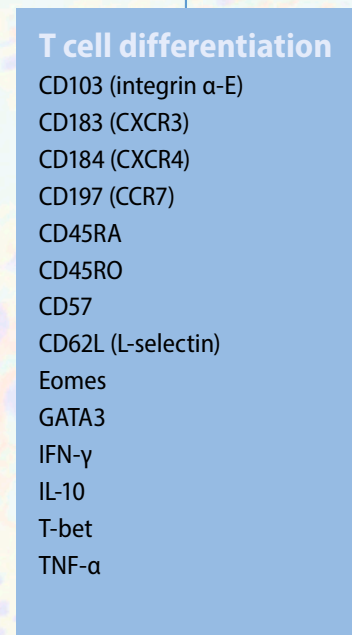
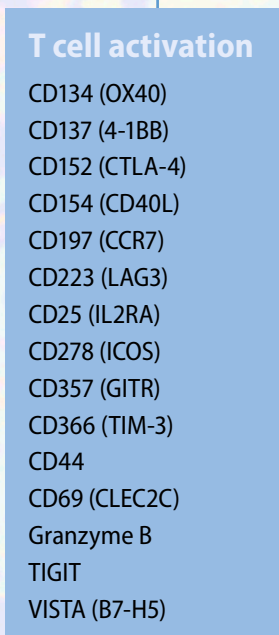
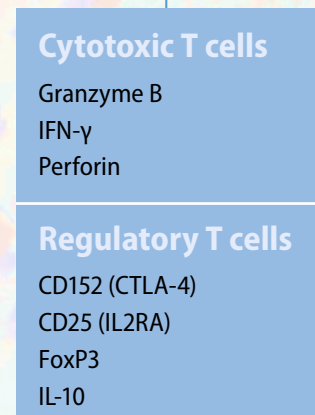
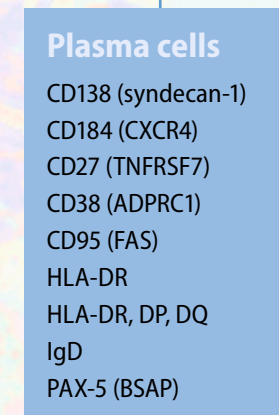
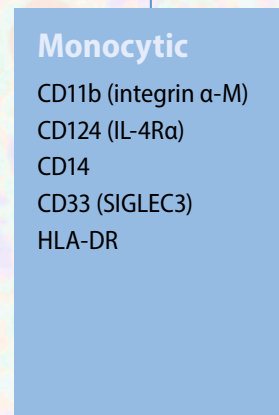
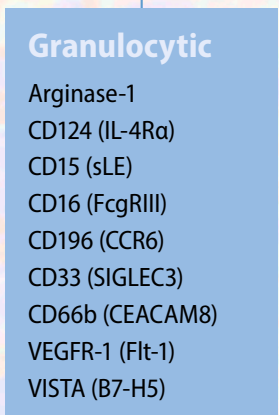
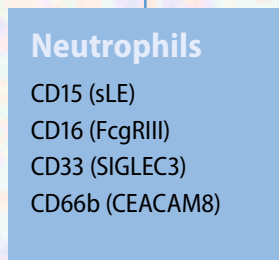
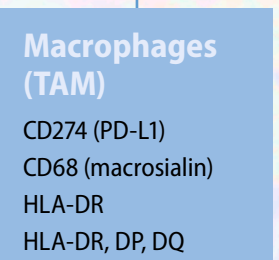
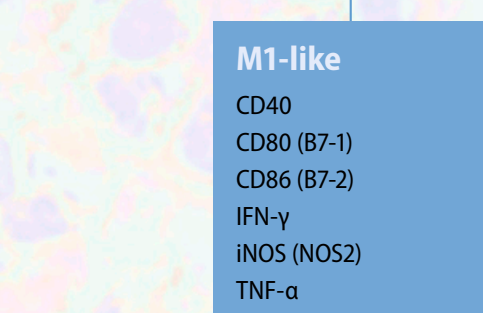
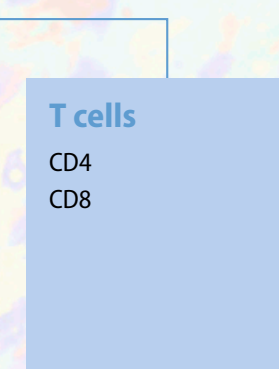
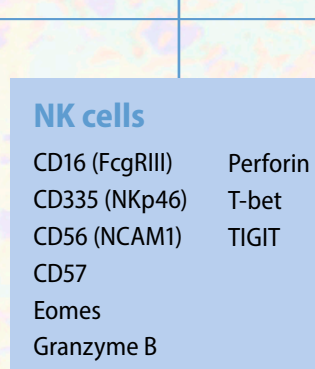
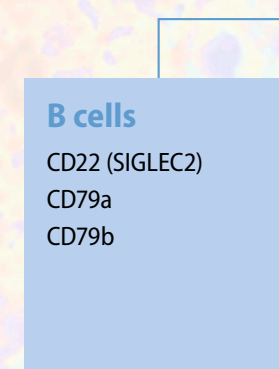
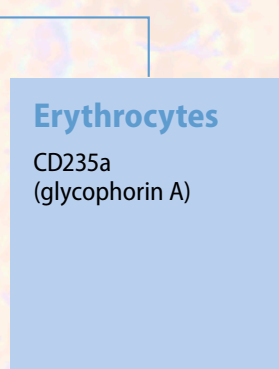
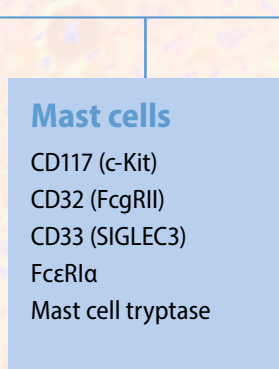
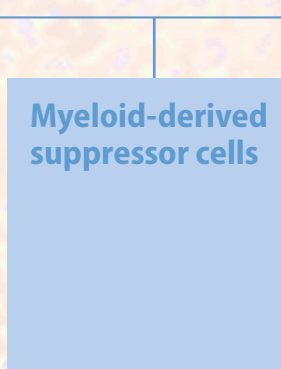
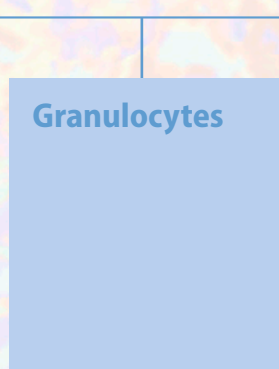
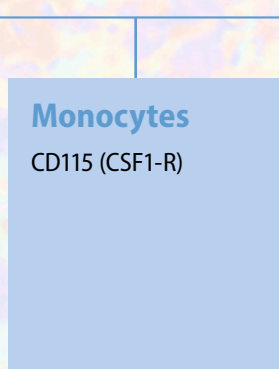
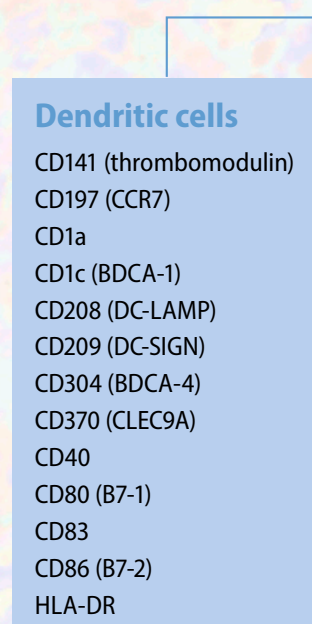
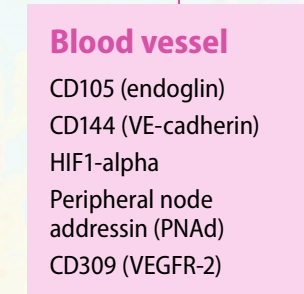
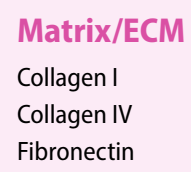
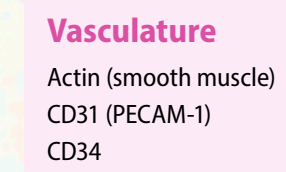
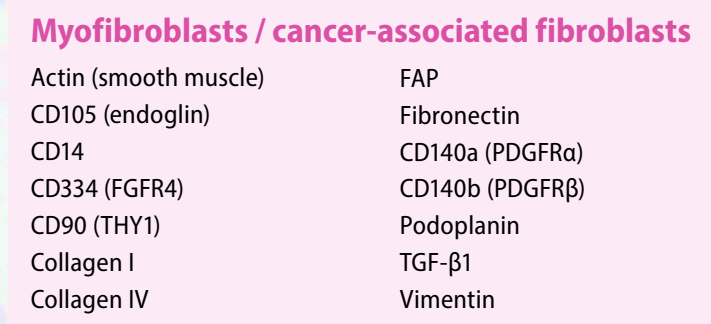
Cell state



Immune system



Stroma



Tumor

