

Cell type-specific Total RNA

— ready-to-use!

Gene expression analysis from distinct hematopoietic cell populations

There is no need to collect large pools of blood and to separate specific cell populations. The high-quality RNA is ready to use—as sample or reference for gene expression profiling such as quantitative PCR or microarray analysis. Using the total RNA as reference allows comparison of treated cell culture samples or patient samples to healthy, untreated conditions. Alternatively, the RNA can be used to clone target genes following cDNA synthesis or RT-PCR.

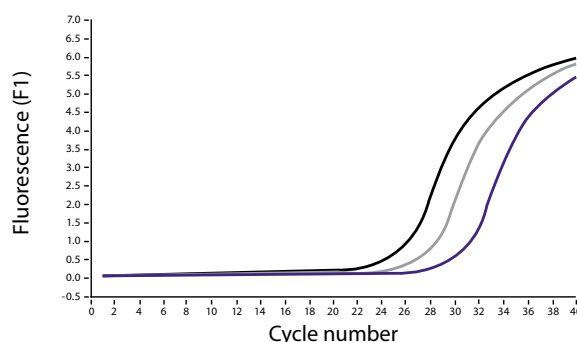
Reliable cell-type specific RNA

Using healthy donor blood, specific cell fractions are separated with the standard method for cell isolation, MACS® Technology. This technology is particularly advantageous for the isolation of rare and immunologically relevant cell populations such as hematopoietic progenitor cells (CD34⁺) and regulatory T cells (CD4⁺ CD25⁺). The extremely small MicroBeads and gentle MACS Column Technology enable cell isolation with generally no effect on cell function or activity.

High-quality RNA

Separated cell fractions from multiple donors are pooled to contain cells of different donor ages and equal gender distribution (50% female, 50% male). RNA is then isolated and extensively quality controlled to provide highly pure cell-type specific total RNA.

For more information please refer to www.MACSmolecular.com.



Real-time PCR analysis of Regulatory T cell (CD4⁺ CD25⁺) Total RNA. Quantitative RT-PCR with intron-spanning primers for a 88 bp-fragment of Hypoxanthineguanine-phosphoribosyltransferase (HPRT) low-copy housekeeping gene (LightCycler®, Roche).

Product	RNA	Order no.
Hematopoietic Progenitor Cell (CD34 ⁺) Total RNA, human	0.2 µg	130-093-167
Regulatory T Cell (CD4 ⁺ CD25 ⁺) Total RNA, human	0.5 µg	130-093-165
T Helper Cell (CD4 ⁺) Total RNA, human	5 µg	130-093-163
Cytotoxic T Cell (CD8 ⁺) Total RNA, human	5 µg	130-093-168
T Cell (CD3 ⁺) Total RNA, human	5 µg	130-093-164
B Cell (CD19 ⁺) Total RNA, human	5 µg	130-093-169
Monocyte (CD14 ⁺) Total RNA, human	5 µg	130-093-166



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