Human Monocyte Research

From sourcing your starting sample to downstream monocyte, macrophage, and dendritic cell analysis, explore our complete portfolio of products* to support your human monocyte research workflow.

**Whole Peripheral Blood**  
**Human Peripheral Blood Leukopak**  
**Fresh or Frozen Human PBMCs**  
**Human PSCs or CD34+ Cells**  
**Frozen Human Monocytes**  

**Monocyte Isolation From Whole Blood**

- Isolate monocytes via density gradient centrifugation.
- RosetteSep™ Human Monocyte Enrichment Cocktail + SepMate™ PBMC Isolation Tubes + Lymphoprep™ Density Gradient Medium.
- Isolate monocytes using negative immunomagnetic selection.
- EasySep™ Direct Human Monocyte Isolation Kit.

**Immunomagnetic Selection**

- Isolate unlabeled monocytes in as little as 12.5 minutes using negative immunomagnetic selection.
- EasySep™ Human Monocyte Isolation Kit.
- EasySep™ Human Monocyte Enrichment Kit Without CD16 Depletion.
- Isolate monocytes using positive immunomagnetic selection.
- EasySep™ Human CD14 Positive Selection Kit II.
- EasySep™ Human CD11b Positive Selection and Depletion Kit.

**Monocyte Generation**

- Differentiate monocytes from human pluripotent stem cells (hPSCs).
- STEMdiff™ Monocyte Kit.
- Expand and differentiate monocytes from cord blood-derived CD34+ cells.
- StemSpan™ SFEM II + StemSpan™ Myeloid Expansion Supplement II.

**Purified Human Monocytes**

**Dendritic Cell Differentiation**

- Differentiate dendritic cells.
- ImmunoCult™ Dendritic Cell Culture Kit.

**Macrophage Differentiation**

- Differentiate M1 or M2 macrophages.
- ImmunoCult™-SF Macrophage Medium + M-CSF and IFN-γ / IL-4.

**Cultured Macrophages and Dendritic Cells**

**Why Use Our Cell Separation Technologies?**

- **FAST.** Isolate monocytes in as little as 12.5 minutes.
- **VERSATILE.** Isolate cells from virtually any sample source.
- **HIGH PURITY.** Achieve up to 99% cell purity with high recoveries.
- **GENTLE.** Obtain viable, functional cells without the need for columns and washes.

**Recommended Products for Cell Analysis**

- Anti-Human CD40 Antibody, Clone 5C3
- Human IL-12 (p70) ELISA Kit
- Human IL-10 ELISA Kit
- GloCell™ Fixable Viability Dyes
- Annexin V Dyes

**Learn more at www.stemcell.com**

*Certain products are only available in select territories. Please contact your local representative or the Product & Scientific Support team at techsupport@stemcell.com for further information.

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