

# CELL

## APPLICATIONS, INC.

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## Human Peripheral Blood Monocytes: HPBM

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5 Important Cell Culture Rules

MSDS Cryopreserved Cells

Cell Apps Flyer Cardiovascular Cells

Cell Apps Poster Primary Cells

Cell Applications Inc Brochure

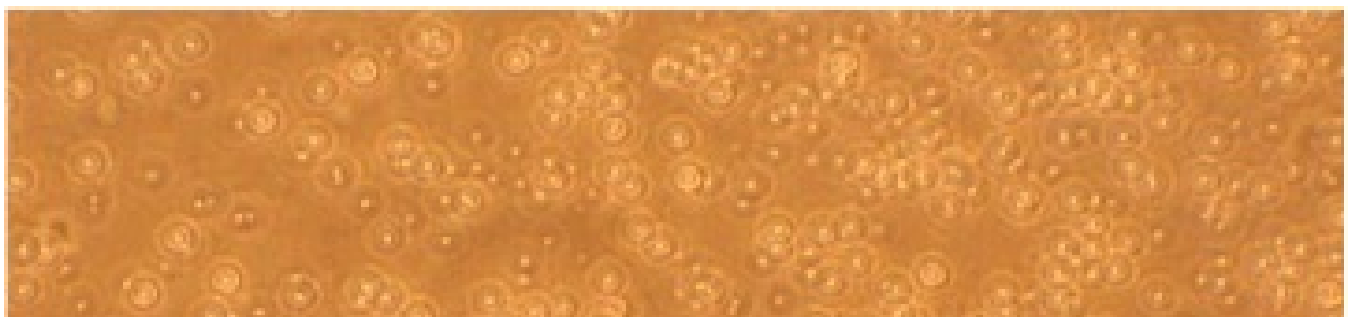
### Description

**Human Peripheral Blood Monocytes (HPBM)** provide a useful in vitro tool for studying various aspects of pathology and biology. Our CD14<sup>+</sup> Monocytes are isolated and purified from human peripheral blood of healthy donors and cryopreserved immediately after isolation.

HPBM are the precursors of tissue macrophages and dendritic cells and are central to immunological responses, including cell-mediated cytotoxicity and production of inflammatory mediators. The CD14 monocyte subset expresses a component of the lipopolysaccharide (LPS) receptor complex, are large with diameter of ~18  $\mu$ m, represent ~80%–90% of circulating monocytes, and express higher levels of CD62L (L-selectin) and CD11b (also referred to as Mac-1 or CR3) and lower levels of MHC class II than do CD16<sup>+</sup> monocytes.

**HPBM from Cell Applications, Inc.** have been used to

- Investigate anti-oxidant activity of NF-E2-related transcription factor 2 (NRF2)
- Identify aldo-keto reductase (AKR) as a tightly regulated human target of NRF2 that can be used as a marker of NRF2 activity



(Click to Enlarge) Human Peripheral Blood CD14+ Monocytes: HPBM

## Details

<b>Tissue</b>	Normal healthy human peripheral blood
<b>QC</b>	No bacteria, yeast, fungi, mycoplasma, virus
<b>Character</b>	CD14 positive selection
<b>Cryovial</b>	5,000,000 HPBM frozen right after isolation in DMEM w/ 45% FBS, 10% DMSO
<b>Kit</b>	Cryovial Frozen HPBM (6906-50a), Maintenance Medium (615-250)
<b>Doublings</b>	N/A - Blood cells don't proliferate in vitro
<b>Applications</b>	Laboratory research use only (RUO). Not for human, clinical, diagnostic or veterinary use.

### Instructions HPBM

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### MSDS Cryopreserved Cells

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## Products

### Related Products

### Extended Family Products

## Resources/Documents

### 5 Important Cell Culture Rules

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