

Rat Bone Marrow MacrophagesCatalog No. **RA-6030**Suggested Medium: **M3368** - Macrophage Medium /w Kit (500 ml)**Product Description**

Rat Bone Marrow Macrophages are derived from the tibias and femurs of Sprague-Dawley Rats. Rat Bone Marrow Macrophages are grown in 100 mm treated tissue culture dish and incubated in *Cell Biologics* Culture Complete Growth Medium for 5-7 days. Cultures are then expanded. Prior to shipping, cells are detached from flasks and immediately cryo-preserved in vials. Each vial contains at least 5×10^6 cells and is delivered frozen. Rat Bone Marrow Macrophages are negative for bacteria, yeast, fungi, and mycoplasma. Cells can be expanded on a multiwell culture plate ready for experiments under the cell culture conditions specified by *Cell Biologics*. Rat Bone Marrow Macrophages are tested for expression of markers using antibodies, CD11b by flow cytometry.

Laboratory Applications

Rat Bone Marrow Macrophages have been used in standard biochemical procedures include PCR, Western blotting, immunoprecipitation, ROS, or cell derivatives for desired research applications.

Storage of *Cell Biologics* Products

Cell Biologics will ship frozen cells on dry ice. On receipt, immediately transfer frozen cells to liquid nitrogen until ready for experimental use. Live-cell shipment is also available on request. Never can primary cells be kept at -20 °C.

Authorized Uses of *Cell Biologics* Products

Rat Bone Marrow Macrophages from *Cell Biologics* are distributed for research purposes only. Our products are not authorized for human use, for in vitro diagnostic procedures, or for therapeutic procedures. Transfer or resale of any *Cell Biologics*' Cells or Products from the purchaser to other markets, organizations, or individuals is prohibited by *Cell Biologics*. *Cell Biologics*' Terms and Conditions must be accepted before submitting an order.

Disclaimer

Investigators should handle the cells that they receive from *Cell Biologics* with caution and treat all animal cells as potential pathogens, since no test procedure can completely guarantee the absence of infectious agents.

Warranty and Liability

Cell Biologics' guarantee applies only to your purchase of *Cell Biologics*' cells with *Cell Biologics*' Media and Coating Solution for appropriate cell culture and cell testing following *Cell Biologics*' online protocols within 35 days from the date of product delivery.

General protocol for the culture of mouse primary cells

All cell culture procedures must be conducted in a bio-safety cabinet. Any and all media, supplements, and reagents must be sterilized by filtration through a 0.2 µm filter. Use aseptic technique to prevent microbial contamination. Cryo-preserved cells must be stored in liquid nitrogen or seeded immediately upon arrival.

Medium:

Review the information provided on the Cell Biologics website about appropriate culture media (e.g. serum and other supplements). Use pre-warmed (37°C) cell culture media to recover cryo-preserved cells or when changing media or splitting cells.

Cell recovery from cryovial:

- Thaw cells in cryo-vial by incubating them in a 37°C water bath for 1 min.
- Promptly remove the vial and wipe it down with 70% ethanol.
- Transfer cells from the vial to a sterile centrifuge tube. Add 10 ml of pre-warmed *Cell Biologics'* Cell Culture Medium. Flush the vial with an additional 0.5-1 ml of medium to ensure complete transfer of cells to the centrifuge tube.
- Centrifuge cells at 200 g for 5 minutes.
- Aspirate the supernatant and resuspend the cell pellet in 10-20 ml of Cell Biologics' Cell Culture Growth Medium.
- Keep resuspended cells to a tube or plate for recovery (2-6 hours) in 37°C CO₂ incubator before doing designed experiments.
- Please note that these primary cells cannot be passaged and refrozen.

Note:

- You may let cells over-growing for 24-48 h after cells reach confluence before doing any cell testing, cell staining, FACS, or designed experiments.
- Cells can be filtered through a 40 Micron cell strainer (BD 352340) just before passaging cells or doing experiments to remove any clumps of cells and most of the dead/floating large cells.
- Please send us the cell images (>90% confluence) if you have any question or problem with cultured cells.
- Per request, a Certificate of Analysis will be provided for each cell lot purchased.