

Rat Bone Marrow Dendritic Cells

Catalog No. **RA-6200**

Suggested Medium: Dendritic Cell Medium /w Kit (500 ml)

Catalog No. **M7711**

Product Description

Rat Bone Marrow Dendritic Cells are derived from the tibias and femurs of 6 weeks old Sprague–Dawley Rats. Cells are grown in 100 mm treated tissue culture dish and incubated in *Cell Biologics* Culture Complete Growth Medium for 5-7 days. Prior to shipping, cells are detached from dishes and immediately cryo-preserved in vials. Each vial contains at least 5×10^6 cells and is delivered frozen. Cells are negative for bacteria, yeast, fungi, and mycoplasma. Cells are tested for expression of markers using antibodies, CD11c by flow cytometry. Cells can be expanded on a multiwell culture plate ready for experiments under the cell culture conditions specified by *Cell Biologics*.

Laboratory Applications

Rat Bone Marrow Dendritic Cells can be 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. Primary cells can never be kept at -20 °C.

Authorized Uses of *Cell Biologics* Products

Rat Bone Marrow Dendritic Cells from *Cell Biologics* are distributed for internal 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 you receive from *Cell Biologics* with caution and treat all 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.

Primary Cell Culture Protocol

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 (30-50 ML, Catalog No. M7711, *Cell Biologics*) to recover cryo-preserved cells and when changing media or splitting cells.

Cell recovery from cryovial

- Quickly thaw cells in cryo-vial by incubating them in a 37°C water bath for <1 min until there is just a small bit of ice left in the vial.
- Promptly remove the vial and wipe it down with 70% ethanol.
- Transfer cells from the vial to a sterile centrifuge tube. Add 8-10 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 100 g for 5 minutes.
- Aspirate the supernatant and resuspend the cell pellet in 6 ml of *Cell Biologics*' Cell Culture Growth medium.
- Add resuspended cells into a plate.

Note

- Please send us the cell images (>90% confluence) if you have any question or problem with cultured cells.