

Banco de Células do Rio de Janeiro

Data Sheet

PAGE 1/3

BCRJ Code: 0006

Cell Line: 2.4G2

Rattus norvegicus (B cell); Mus musculus (myeloma), rat (B cell); mouse **Species:**

(myeloma)

Vulgar Name: Rat/Mouse

Cell Type: Hybridoma: B Lymphocyte

Morphology: Lymphoblast

Growth Properties: Suspension

Animals were immunized with the J774 mouse macrophage cell line. Spleen cells **Derivation:**

were fused with P3U1 myeloma cells.

The antibody can be used to block non-specific binding to Fc gamma bearing **Applications:**

cells.

Tumor Formation:: YES

immunoglobulin; monoclonal antibody; against the Fc gamma receptor (FcRII, **Products:**

CD32)

Biosafety: 1

The antibody reacts with and immunoprecipitates the 50000 dalton to 70000 **Addtional Info:**

dalton Fc gamma receptor on macrophages and Fc gamma bearing lymphoid

cells.

Dulbecco's modified Eagle's medium with 4 mM L-glutamine, 4.5 g/L glucose and **Culture Medium:**

5% of horse serum and 5% of fetal bovine serum.

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Banco de Células do Rio de Janeiro

Data Sheet

PAGE 2/3

Subculturing:

Cultures can be maintained by addition of fresh medium. Alternatively, cultures can be established by centrifugation with subsequent resuspension at 1 x 10e5 viable cells/mL. Maintain cultures at a cell concentration between 1 x 10e5 and 1 x 10e6 cells/mL. NOTE: Do not allow the cell concentration to exceed 1 x 10e6 cells/mL.

Subculturing Medium

Renewal:

Every 2 to 3 days

Culture Conditions:

Atmosphere: air, 95%; carbon dioxide (CO2), 5% Temperature: 37°C

Cryopreservation:

95% FBS + 5% DMSO (Dimethyl sulfoxide)

SAFETY PRECAUTION: Is highly recommend that protective gloves and clothing always be used and a full face mask always be worn when handling frozen vials. It is important to note that some vials leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vessel exploding or blowing off its cap with dangerous force creating flying debris. 1. Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the Oring and cap out of the water. Thawing should be rapid (approximately 2 minutes). 2. Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by dipping in or spraying with 70% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions. 3. For cells that are sensitive to DMSO is recommended that the cryoprotective agent be removed immediately. Transfer the vial contents to a centrifuge tube containing 9.0 mL complete culture medium and spin at approximately 125 x g for 5 to 7 minutes. 4.Discard the supernatant and Resuspend cell pellet with the recommended complete medium (see the specific batch information for the culture recommended dilution ratio). 5. Incubate the culture in a appropriate atmosphere and temperature (see "Culture Conditions"

Thawing Frozen Cells:

normal pH (7.0 to 7.6).

for this cell line). NOTE: It is important to avoid excessive alkalinity of the

medium during recovery of the cells. It is suggested that, prior to the addition of the vial contents, the culture vessel containing the growth medium be placed into the incubator for at least 15 minutes to allow the medium to reach its



Banco de Células do Rio de Janeiro

Data Sheet

PAGE 3/3

References:

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ATCC:

HB-197