OVCAR-5/RFP Cell Line

CATALOG NUMBER: AKR-254

STORAGE: Liquid nitrogen

Note: For best results begin culture of cells immediately upon receipt. If this is not possible, store at -80°C until first culture. Store subsequent

cultured cells long term in liquid nitrogen.

QUANTITY & CONCENTRATION: 1 mL, 1 x 10⁶ cells/mL in 70% DMEM, 20% FBS, 10% DMSO

Background

OVCAR-5 is a human epithelial carcinoma cell line of the ovary, established from the ascitic fluid of a patient with progressive ovarian adenocarcinoma without prior cytotoxic treatment. The unique growth pattern of ovarian carcinoma makes it an ideal model for examining the anticancer drug activity. With epithelial-like morphology, OVCAR-5 has abundant activity in both the Boyden chamber chemotaxis and invasion assay. The OVCAR-5 cell line is also able to grow in soft agar, an indicator of transformation and tumorigenicity, and displays a relatively high colony forming efficiency. *In vivo*, OVCAR-5 cells can form moderately well-differentiated adenocarcinoma consistent with ovarian primary cells. Our OVCAR-5/RFP cell line stably expresses RFP and Puromycin resistant genes that were introduced using lentivirus.

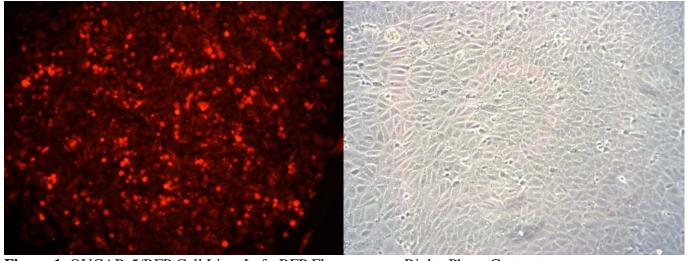


Figure 1. OVCAR-5/RFP Cell Line. Left: RFP Fluorescence; Right: Phase Contrast.

Ouality Control

This cryovial contains at least 1.0×10^6 OVCAR-5/RFP cells as determined by morphology, trypan-blue dye exclusion, and viable cell count. The OVCAR-5/RFP cells are tested free of microbial contamination.



Medium

- 1. Culture Medium: D-MEM (high glucose) or McCoy's 5A, 10% fetal bovine serum (FBS), 0.1 mM MEM Non-Essential Amino Acids (NEAA), 2 mM L-glutamine, 1% Pen-Strep.
- 2. Freeze Medium: 70% DMEM or McCoy's 5A, 20% FBS, 10% DMSO.

Methods

Establishing OVCAR-5/RFP Cultures from Frozen Cells

- 1. Place 10 mL of complete DMEM growth medium in a 50-mL conical tube. Thaw the frozen cryovial of cells within 1–2 minutes by gentle agitation in a 37°C water bath. Decontaminate the cryovial by wiping the surface of the vial with 70% (v/v) ethanol.
- 2. Transfer the thawed cell suspension to the conical tube containing 10 ml of growth medium.
- 3. Collect the cells by centrifugation at 1000 rpm for 5 minutes at room temperature. Remove the growth medium by aspiration.
- 4. Resuspend the cells in the conical tube in 15 mL of fresh growth medium by gently pipetting up and down.
- 5. Transfer the 15 mL of cell suspension to a T-75 tissue culture flask. Place the cells in a 37°C incubator at 5% CO2.
- 6. Monitor cell density daily. Cells should be passaged when the culture reaches 95% confluence.

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