Cell Line Data Sheet for Rh18

Disease:	Rhabdomyosarcoma
Histology Subtype:	Predominately Embryonal (Mixed Aveolar and Embryonal subtype)
Phase of Therapy:	Diagnosis
Treatment:	None
Disease Stage:	4
Gender:	N/A
Age at diagnosis:	24 months
Race:	N/A
Age at sample collection:	N/A
Source of Culture:	Solid tumor from mouse xenograft
Primary TumorSite:	Perineum
Date Established:	
PAX-FKHR Status:	Positive for translocation
p53 functionality:	Non-Functional
Karyotype:	
Modal No:	

R-IC50 (DIMSCAN*):
***see reference 1**

Vincristine (ng/ml)	Melphalan (µg/ml)	Etoposide (ng/ml)	Rapamycin (ng/ml)
0.19 ± 0.28	17.74 ± 1.38	18.80 ± 2.27	N/A

Growth Conditions: Please see Protocols section at https://www.cccells.org/protocols.php
5% CO_2, 20% O_2, 37.0°C

Media Formulation: Please see Protocols section at https://www.cccells.org/protocols.php
Cells are grown in a base medium of Iscove's Modified Dulbecco's Medium plus the following supplements (to a final concentration): 20% Fetal Bovine Serum, 4mM L-Glutamine, 1X ITS (5 µg/mL insulin, 5 µg/mL transferrin, 5 ng/mL selenous acid)

Doubling Time: 65 hours

Growth Properties: Teardrop-shaped cells with processes, adherent

STR Profile: May be obtained at https://strdb.cccells.org/

Notes: Positive for MyoD1 and myogenin

All COG Repository cell lines are antibiotic-free, mycoplasma-free, and cryopreserved in 50% FBS / 7.5% DMSO. Each vial label contains the cell line name, passage number, total viable cell count (usually 5-10e6), the overall cell viability, and date frozen. All cell lines are validated with original patient sample by STR analysis.

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References:

1. Kang MH, Smith MA, Morton CL, Keshelava N, Houghton PJ, Reynolds CP. National Cancer Institute Pediatric Preclinical Testing Program: Model Description for In Vitro Cytotoxicity Testing. Pediatric Blood Cancer 56: 239-249, 2011. PubMed ID: 20922763
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3005554/

SEE NCI Pediatric Preclinical Testing Program references.

2. Petak, I., Douglas, L., Tillman, D.M., Vernes, R., Houghton, J.A. (2000). Pediatric rhabdomyosarcoma cell lines are resistant to Fas-induced apoptosis and highly sensitive to TRAIL-induced apoptosis. Clin Cancer Res 6, 4119-27. PM:11051265
https://clincancerres.aacrjournals.org/content/6/10/4119.long

3. Hazelton, B.J., Houghton, J.A., Parham, D.M., Douglass, E.C., Torrance, P.M., Holt, H., Houghton, P.J. (1987). Characterization of Cell Lines Derived from Xenografts of Childhood Rhabdomyosarcoma. Cancer Res 47, 4501-7. PMID: 3607778
https://cancerres.aacrjournals.org/content/47/16/4501.long

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Cell Line Name: **Rh18**

Low confluency (10x magnification)

High confluency (10x magnification)

Low confluency (20x magnification)

High confluency (20x magnification)