Cell Line Data Sheet for Rh41

Disease:	Rhabdomyosarcoma
Histology Subtype:	Alveolar
Phase of Therapy:	Post-Chemotherapy (Progressive Disease)
Treatment:	Yes
Gender:	Female
Age at diagnosis:	7 years
Race:	N/A
Age at sample collection:	N/A
Source of Culture:	Solid tumor from mouse xenograft
Primary TumorSite:	Lung
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)
0.54 ± 0.04	2.16 ± 0.44	0.17 ± 0.03	0.61 ± 0.04

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: 60 hours
Growth Properties: Elongated cells and round cells, adherent with small population of suspended cells

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

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Cell Line Name: **Rh41**

Low confluency (10x magnification)

High confluency (10x magnification)

Low confluency (20x magnification)

High confluency (20x magnification)