Cell Line Data Sheet for TC-32

Disease:	Primitive neuroectodermal tumor (PNET)
Phase of Therapy:	Diagnosis
Treatment:	None
Disease Stage:	
Gender:	Female
Age at diagnosis:	31 months
Race:	N/A
Age at sample collection:	N/A
Source of Culture:	Solid Tumor
Primary Tumor Site:	
Date Established:	
EWS/FLI1 Status:	ERG
p53 functionality:	Non-Functional
Karyotype:	+5,+10,i(1q),t(11;22)(q24;q12)
Modal No:	48 (46-49)

IC90 (DIMSCAN*):

VNC (ng/ml)	L-PAM (µg/ml)	ETOP (ng/ml)	RAP (ng/ml)
N/A	N/A	N/A	N/A

VNC, vincristine; L-PAM, melphalan; ETOP, etoposide; RAP, rapamycin

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:

Growth Properties: 24 hours

STR Profile: Teardrop-shaped cells with processes Adherent, grow mostly in clumps

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

Notes:

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. Reynolds CP, Brodeur GM, Tomayko MM, Donner L, Helson L, Seeger RC, Triche TJ: Biological classification of cell lines derived from human extra-cranial neural tumors. Prog Clin Biol Res.271:291-306, 1988. PubMed ID: 3406003

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3. Batra S, Reynolds CP, Maurer BJ. Fenretinide cytotoxicity for Ewing's sarcoma (ES) and primitive neuroectodermal Tumor (PNET) cell lines is decreased by hypoxia and synergistically enhanced by ceramide modulators. Cancer Research 64: 5415-5424, 2004. PubMed ID: 15289350
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4. Thiele, Carol J., McKeon, Catherine, Triche, Timothy J., Ross, Robert A., Reynolds, C. Patrick, and Israel, Mark A. (1987). Differential Protoocogene Expression Characterizes Histopathologically Indistinguishable Tumors of the Peripheral Nervous System. J Clin Invest 80: 804-811. PubMed ID: 2887586
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5. Whang-Peng, J., Triche, T.J., Knutsen, T., Miser, J., Kao-Shan, S., Tsai, S., and Israel, M. A. (1986). Cytogenetic Characterization of Selected Small Round Cell Tumors of Childhood. Cancer Genet Cytogene 21: 185-208. PubMed ID: 3004699
https://www.sciencedirect.com/science/article/pii/0165460886900014?via%3Dihub

Cell Line Data Sheet for TC-32

Cell Line Name: **TC-32**

Low confluency (10x magnification)

High confluency (10x magnification)

Low confluency (20x magnification)

High confluency (20x magnification)