# Chordoma Foundation Cell Line Validation

MUG-CC1

Cell Line Phenotype and Expression
Analysis Report

November 10, 2015



# Cell Line Receiving

Format Received	Date Received	Condition	Quantity	Passage	Initial Cell Count	Initial Cell Viability
Flask (T25)	June 10, 2015	50% confluent	1	p. 16	N/A	N/A

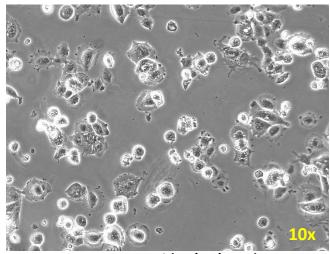
#### **Growth Conditions**

#### Media:

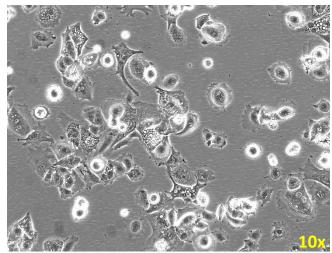
- 1:4 RPMI/IMDM + 10% FBS
- + glut + ITS+ Pen/Strep
- $\rightarrow$  Passage when ~80-90% confluent (1:2, 1:3)
- → Change media every 2-3 days

#### **Phase Contrast Image Review**

Cells arrived live, in 1 T25 closed-cap flask. Were semi-sparse (~50% confluent). They were visibly clear of contamination. They had to be moved, 24 hours after arrival, into a flask with a filtered cap.



Date Received (06/10/2015)

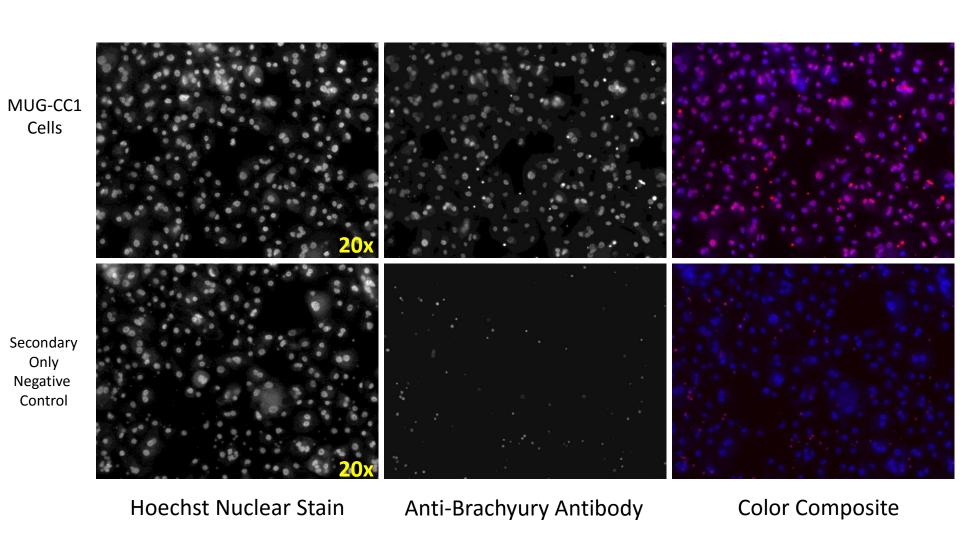


7 days post initial in-house passage (06/18/2015)



## Cell Line Immunofluorescence Validation

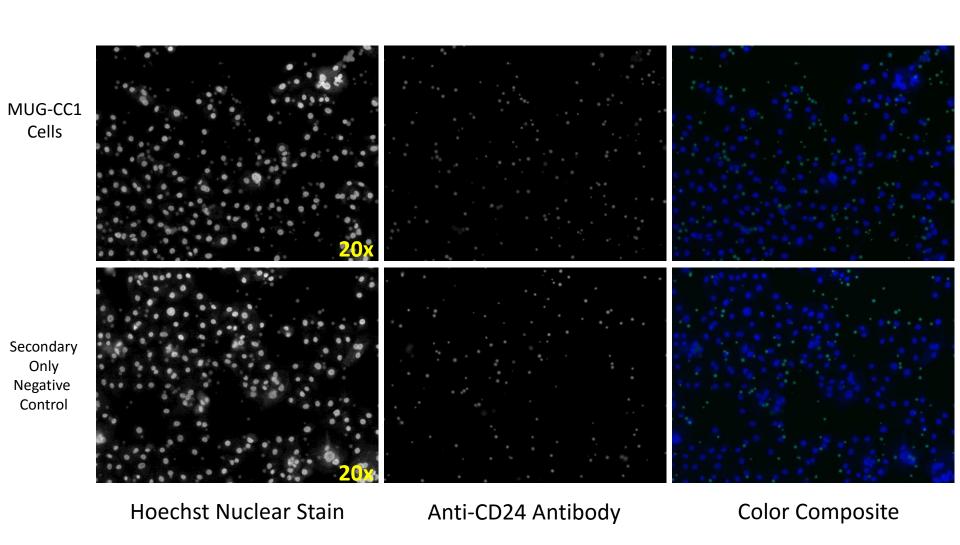
MUG-CC1 p.22 versus Secondary Only Negative Control





## Cell Line Immunofluorescence Validation

MUG-CC1 p.22 versus Secondary Only Negative Control

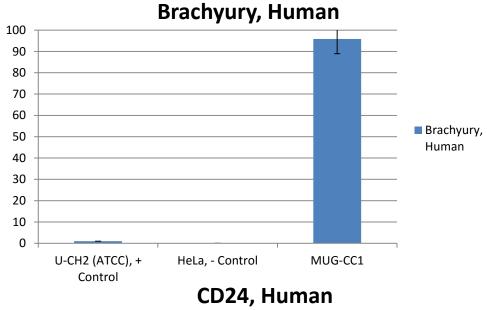




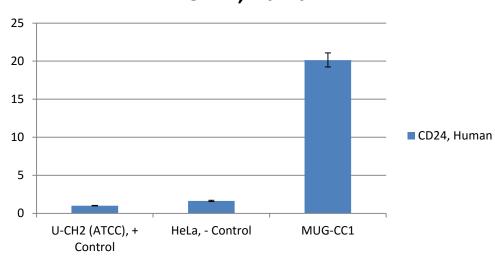
### Cell Line Validation Service

Relative quantification of Brachyury and CD24 in MUG-CC1 Chordoma cell line

Sample Name	Brachyury, Human	Neg Error	Pos Error
U-CH2 (ATCC), + Control	1	0.025434	0.026098
HeLa, - Control MUG-CC1	0.012224 95.84546	0.000844 6.937544	0.000906 7.478885



Sample	CD24, Human	Neg. Error	Pos. Error
U-CH2 (ATCC), + Control	1	0.03154	0.032568
HeLa, - Control	1.631788	0.086057	0.090848
MUG-CC1	20.13907	0.905041	0.947627



Tables and associated graphs depict relative quantification of brachyury (top table and graph) and CD24 (bottom table and graph) gene expression/RNA in chordoma cell samples. Gene expression across all assessed lines is set relative to the positive control sample, U-CH1, which is set at 1. The X-axis represents cell lines assessed and the Y-axis represents gene expression relative to positive control.

## Cell Line Validation Results

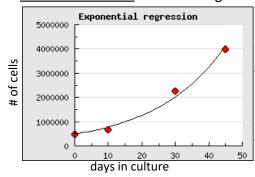
Results summary report of MUG-CC1

TEST	SPECIFICATION	RESULTS
Cell Growth	Immortilized	Doubling time = 15 days
STR Analysis	Human, unique	Pass
IF Validation	Signal in nucleus	Pass
PCR Validation	Expressing Brachyury and CD24	Pass

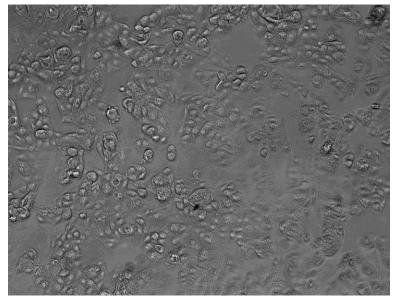
#### Cell lot generated

Stock Lot#	1019-114
Cells per vial	1.0x10 <sup>6</sup>
Lot Viability	98%
Passages	p.26

#### Cell Line Growth: Cell doubling time= 15 days



Cell growth rates were calculated from an actively growing culture for four passages. Growth rates will likely be slower when calculated from a fresh thaw.



MUG-CC1 Vala Cell Lot 1019-114, taken before validation IF labelling.

