# Chordoma Foundation Cell Line Validation

**U-CH14** 

Cell Line Phenotype and Expression
Analysis Report

May 16, 2017



## Cell Line Receiving

Format Received	Date Received	Condition	Quantity	Passage	Initial Cell Count	Initial Cell Viability
Frozen Vials	January 12, 2017	N/A	3	p (0)	2.85 x 10 <sup>5</sup>	66%

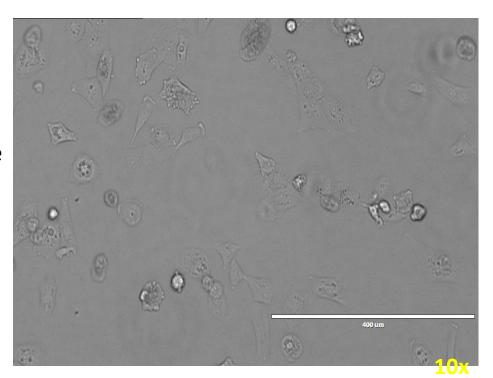
#### **Growth Conditions**

Media:

4:1 IMDM/RPMI + 10% FBS + I-Glutamine + Pen/Strep

→Passage when ~80-90% confluent (no more than 1:2)

→Change media every 5-7 days

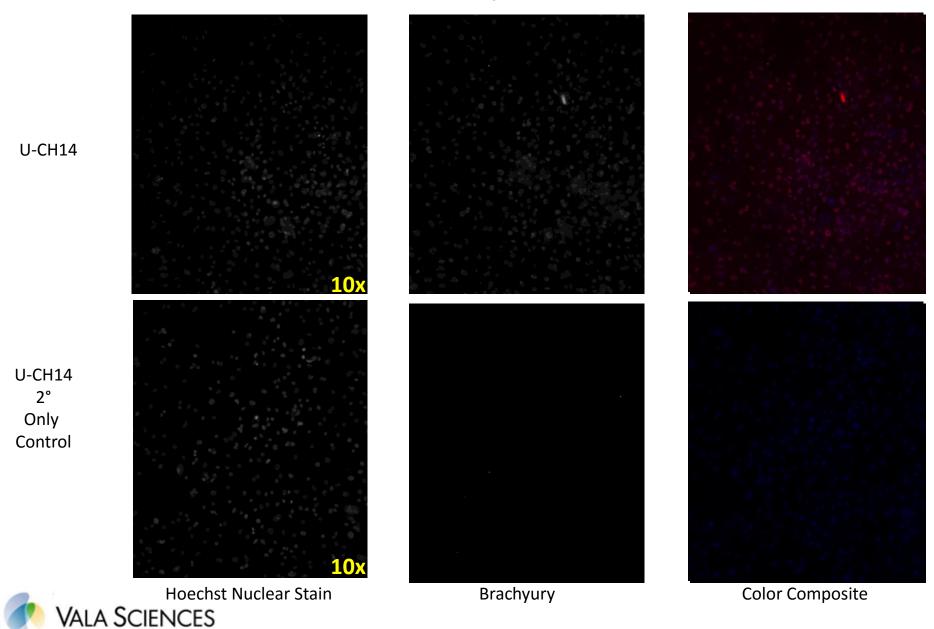


U-CH14 24hrs post thaw.



### Cell Line Immunofluorescence Validation

U-CH14 Anti-Brachyury versus Secondary-only Negative Control



## Cell Line Immunofluorescence Validation

U-CH14 Anti-CD24 versus Secondary-only Negative Control U-CH14 U-CH14 2° Only Control Hoechst Nuclear Stain **CD24 Color Composite** 



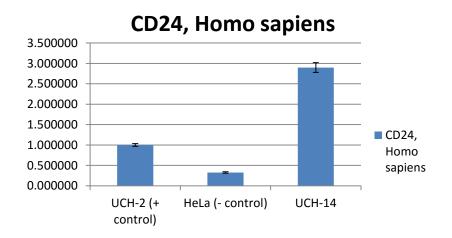
#### Cell Line PCR Validation

Relative quantification of Brachyury and CD24 gene in U-CH14 cell line

Cample	Brachury,	New Force	Dan Sunan
<u>Sample</u>	Homo sapiens	Neg. Error	Pos. Error
UCH-2 (+ control)	1	0.076061975	0.08232368
HeLa (- control)	0.00081977	5.18264E-05	5.5324E-05
UCH-14	7.15881518	0.328702959	0.34452197

	Brach	ury, Homo	sapien	S
8.000000 —			<u> </u>	
7.000000 +				
6.000000 +				
5.000000				
4.000000				
3.000000 +				■ Brachury,
2.000000 +				— Homo
1.000000 +				— sapiens
0.000000 +		1 1		
	UCH-2 (+ control)	HeLa (- control)	UCH-14	

<u>Sample</u>	CD24, Homo sapiens	Neg. Error	Pos. Error
UCH-2 (+ control)	1	0.032074043	0.03313688
HeLa (- control)	0.3261052	0.01774769	0.01876917
UCH-14	2.89650235	0.118301913	0.12333947





### **Cell Line Validation Results**

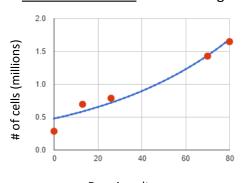
Results summary report of U-CH14

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

#### Cell lot generated

Stock Lot#	1027-026
Cells per vial	500k
Lot Viability	96%
Passages	7

#### Cell Line Growth: Cell doubling time= 44 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.



U-CH14, lot 1027-002.

