

Chordoma Foundation Cell Line

U-CH2

Cell Line Phenotype and Expression
Analysis Report

June 22, 2015

Cell Line Receiving

Format Received	Date Received	Condition	Quantity	Passage	Initial Cell Count	Initial Cell Viability
Flasks (T25)	November 26, 2013	good	2	p. 26	N/A	N/A

Growth Conditions

Media:

4:1 IMDM/RPMI 1640 + 10% HI FBS

+ Pen/Strep

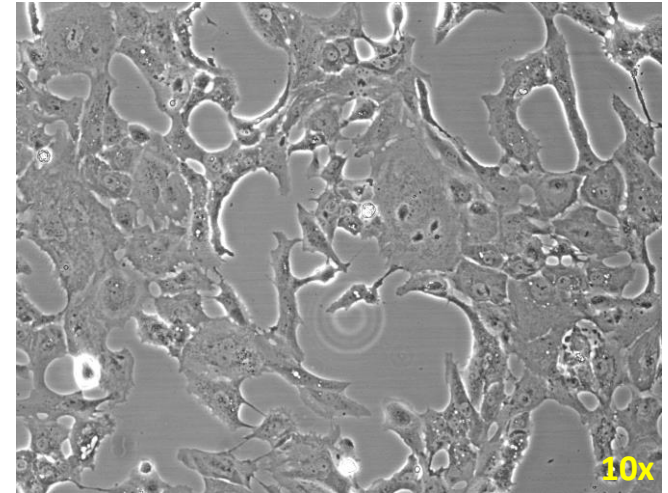
→ Use flasks coated with 0.1% gelatin

→ Passage when ~80-90% confluent (1:3, 1:5)

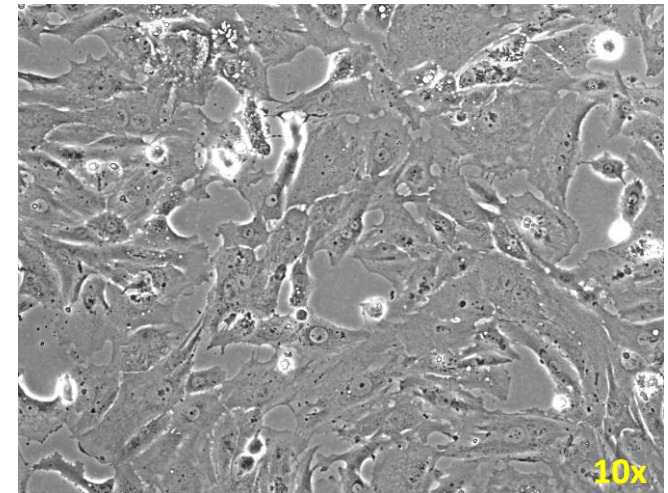
→ Change media every 3 days

Phase Contrast Image Review

Cells arrived live, in 2 T25 flasks. They looked healthy. They are visibly clear of contamination and grow well.



U-CH2 arrival day (11/26/2013)

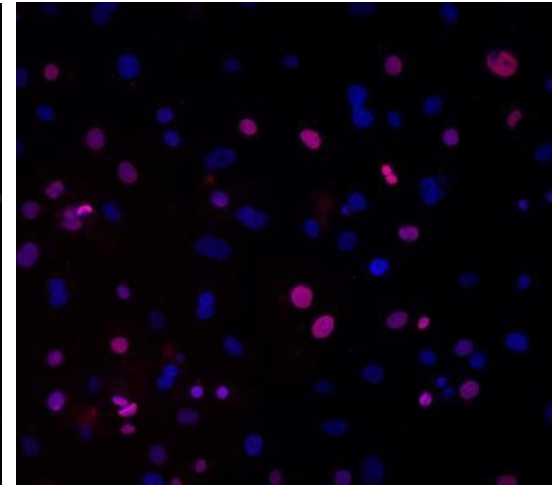
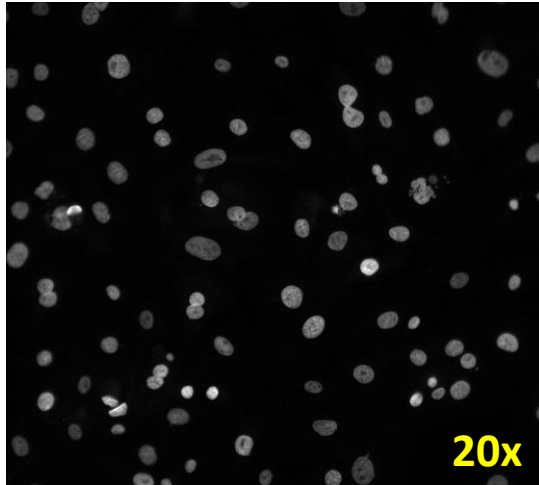


24 Hours After Receiving (11/27/2013)

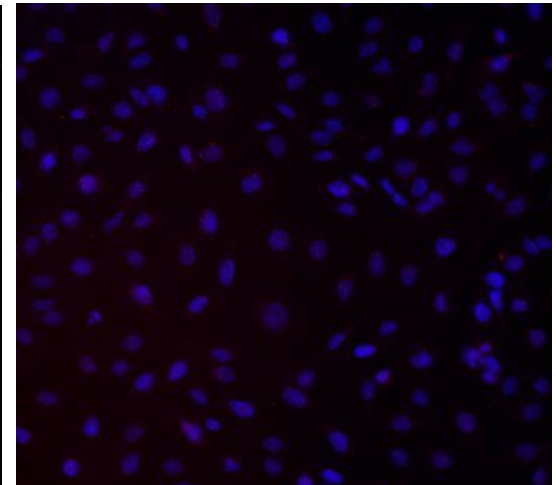
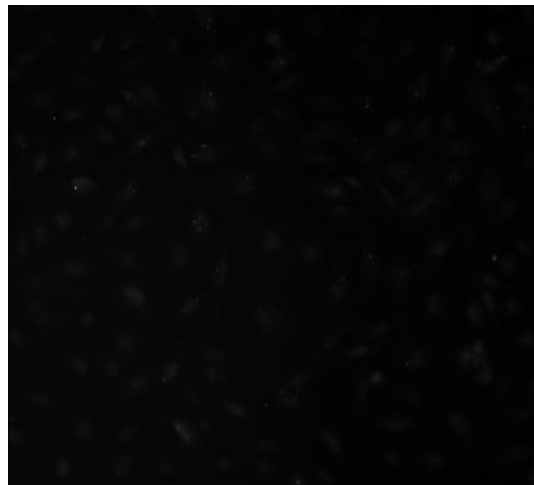
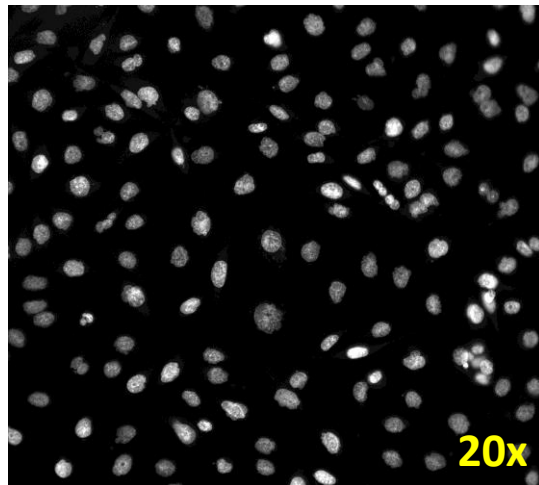
Cell Line Immunofluorescence Validation

U-CH2 (Supplied by Duke University) p.37 versus Non-Chordoma Negative Control

U-CH2
ATCC



MDA-MB-231
Negative
Control



Hoechst Nuclear Stain

Anti-Brachyury Antibody

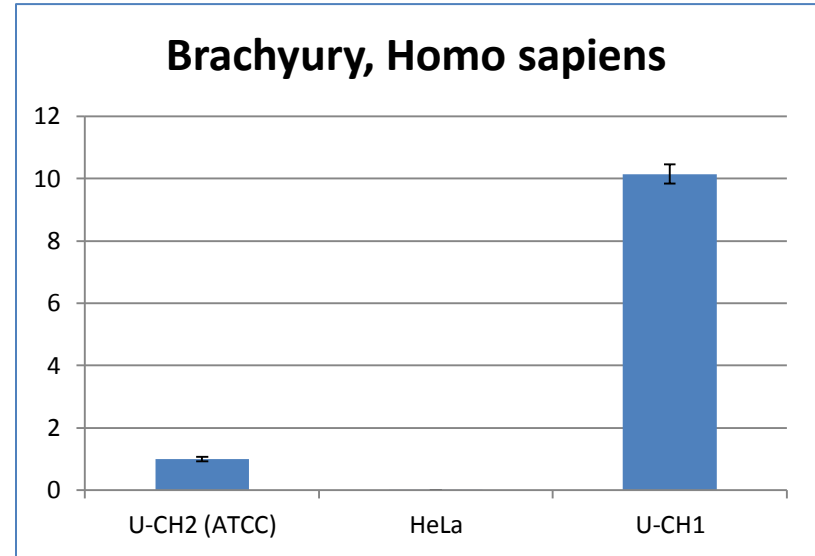
Color Composite

Cell Line PCR Validation

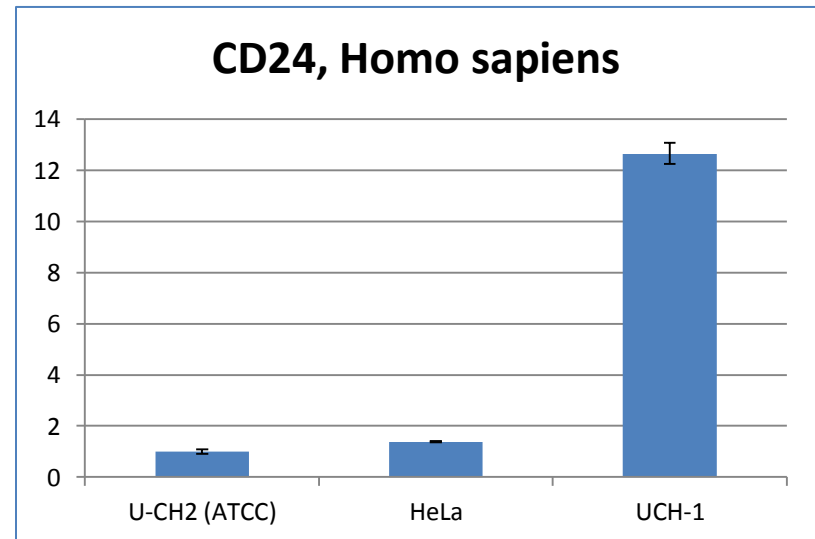
Relative quantification of Brachyury and CD24 gene in U-CH2* cell line

*PCR data was normalized to U-CH2 (the positive control)

Sample	BRACHYURY, Homo sapiens	Neg. Error	Pos. Error
U-CH2 (ATCC)	1	0.071225	0.076687
HeLa	0.009183	0.00052	0.00055
U-CH1	10.143163	0.301634	0.310879



Sample	CD24, Homo sapiens	Neg. Error	Pos. Error
U-CH2 (ATCC)	1	0.078939	0.085705
HeLa	1.386653	0.03058	0.03127
UCH-1	12.643509	0.408367	0.421997



Cell Line Validation Results

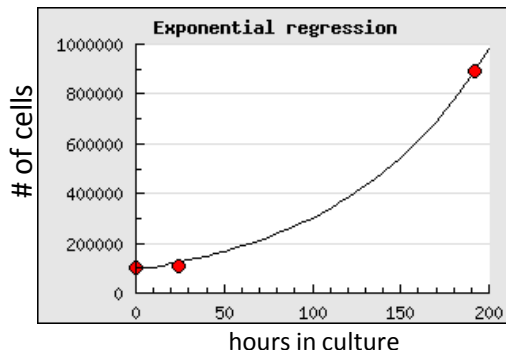
Results summary report of U-CH2

TEST	SPECIFICATION	RESULTS
Cell Growth	Immortalized	Doubling time = 3 days
STR Analysis	Human, unique	Pass
IF Validation	Signal in nucleus	Pass
PCR Validation	Expressing Brachyury and CD24	Pass

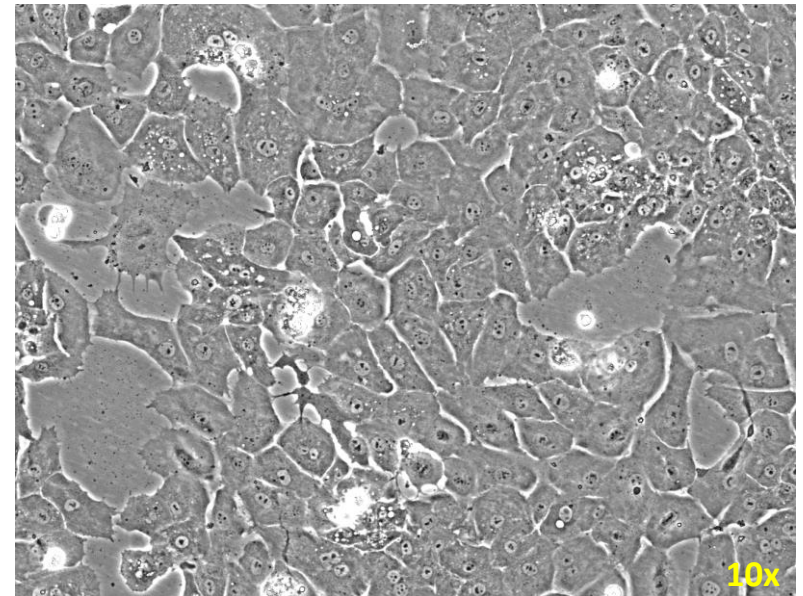
Cell lot generated

Stock Lot#	EB1013-050
Cells per vial	2.5×10^6
Lot Viability	97.7%
Passages	p.34

Cell Line Growth: Cell doubling time= 3 days



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



**U-CH2 Vala cell lot EB1013-050
viability thaw**