

Chordoma Foundation Cell Line Validation

UM-Chor5D

Cell Line Phenotype and Expression
Analysis Report

June 3rd, 2019

Cell Line Receiving

Format Received	Date Received	Condition	Quantity	Passage	Initial Cell Count	Initial Cell Viability
Live Cells	April 10 th , 2019	N/A	2X T25	21	n/a	n/a

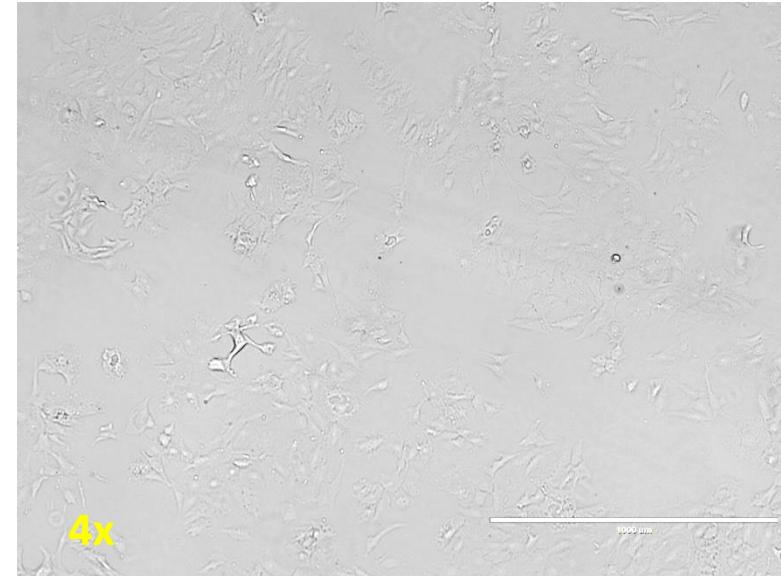
Growth Conditions

Media:

4:1 IMDM/RPMI + 20% FBS + 1X Non Essential Amino Acids + Pen/Strep + 1X Anti-anti

→ Passage when ~80-90% confluent

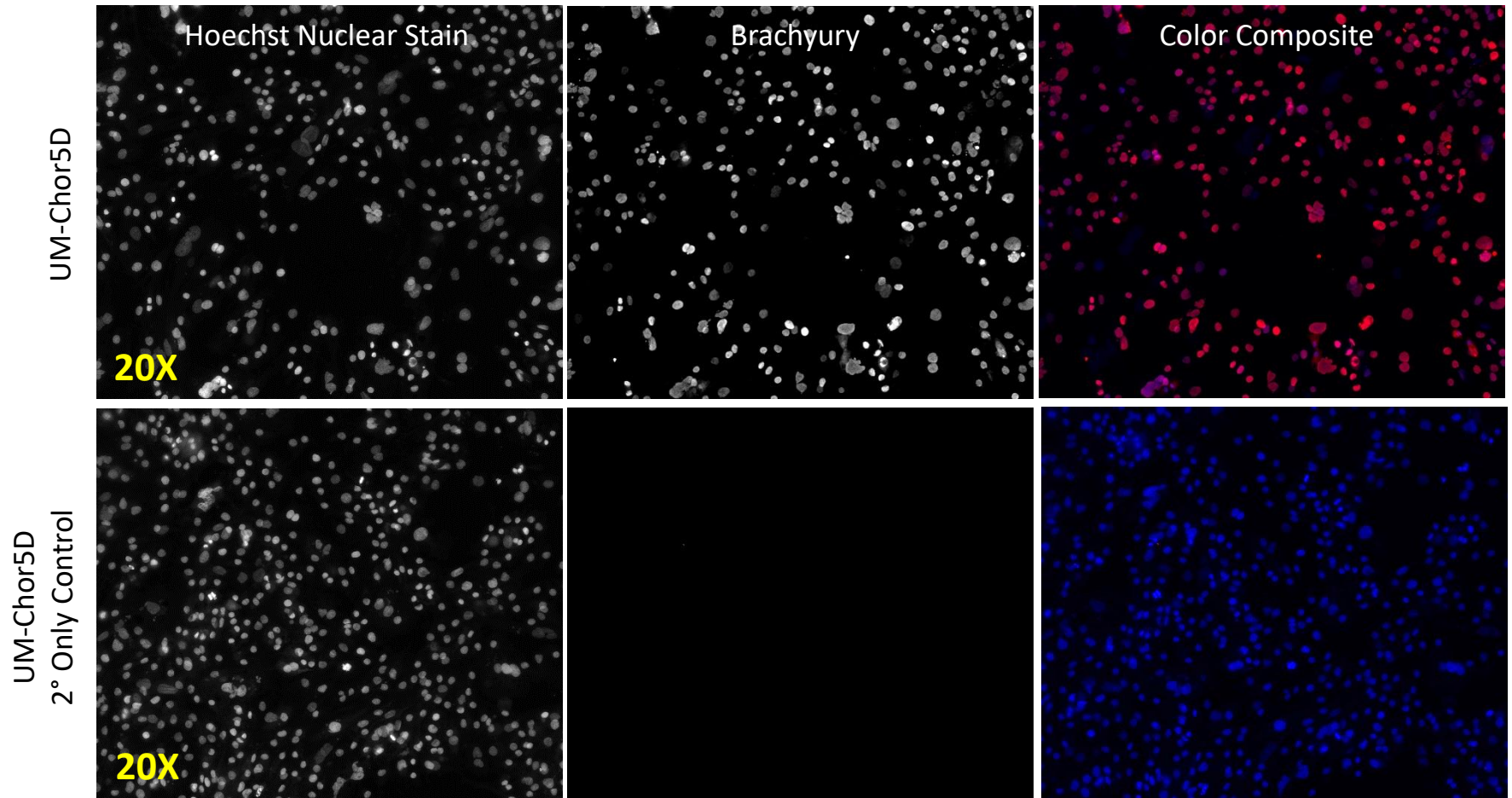
→ Change media every 2-3 days



UM-Chor5d arrival, live in T25

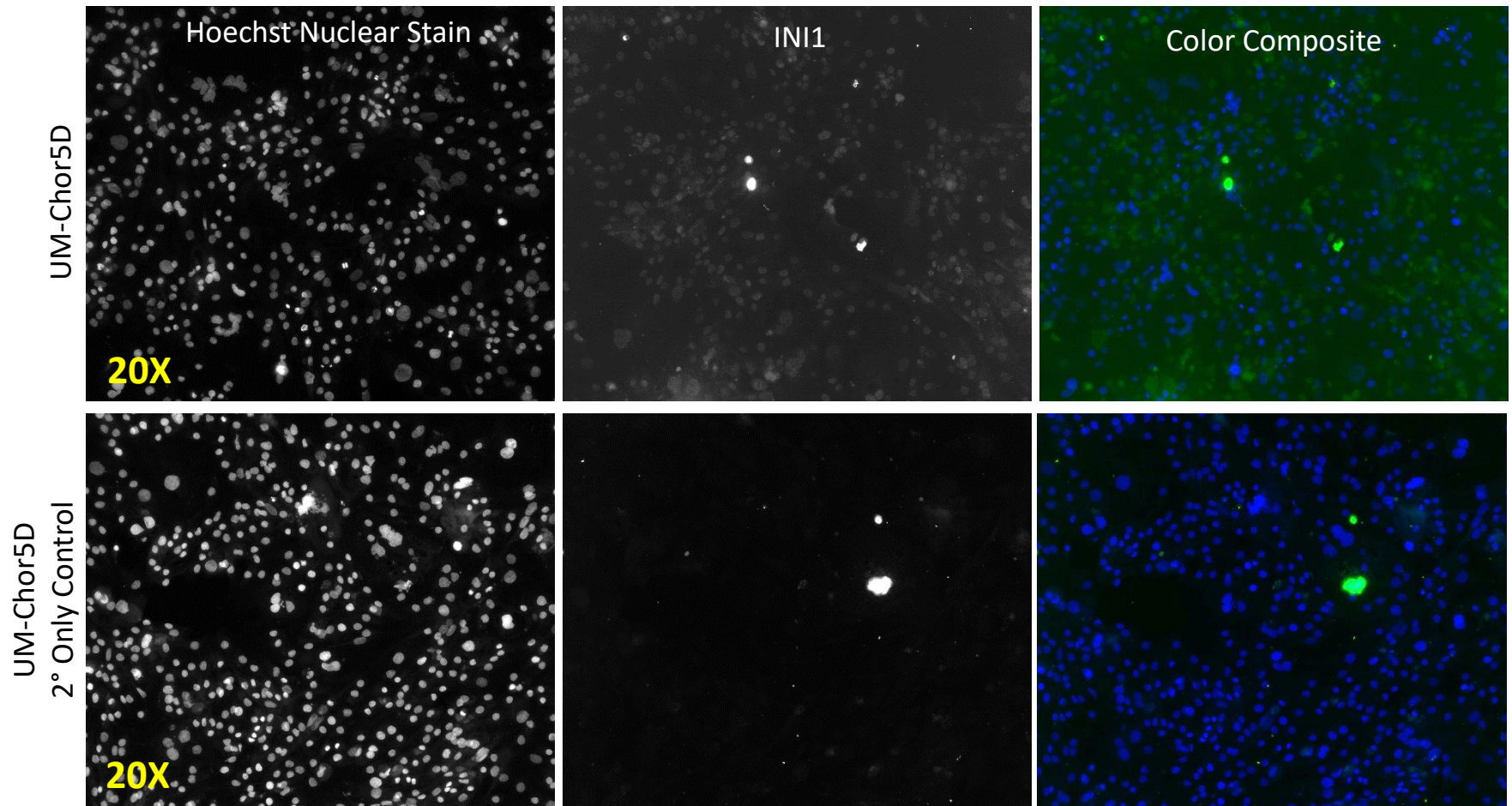
Cell Line Immunofluorescence Validation

UM-Chor5D Anti-Brachyury versus Secondary-only Negative Control



Cell Line Immunofluorescence Validation

UM-Chor5D Anti-INI1 versus Secondary-only Negative Control

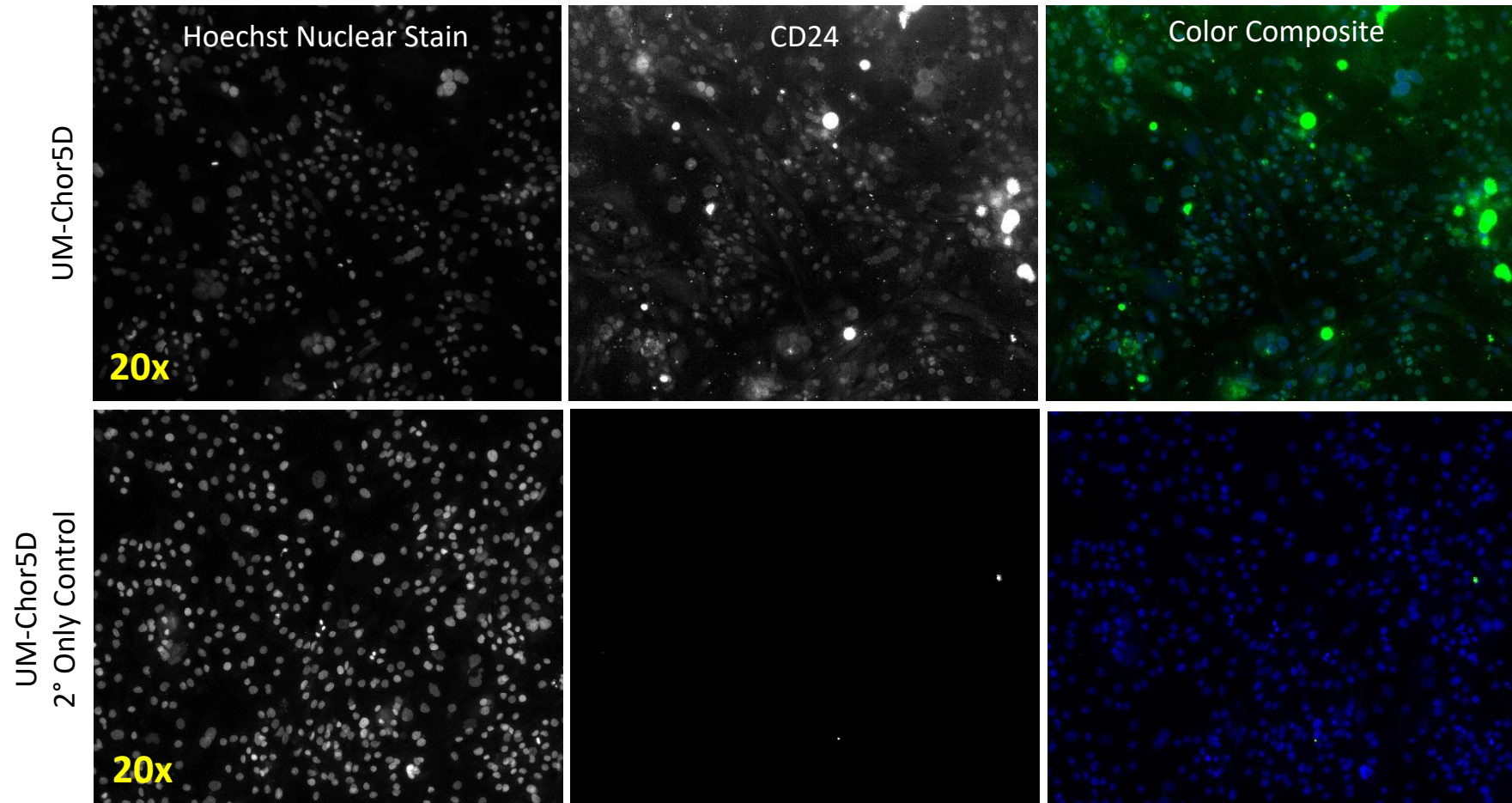


Comments:

Ini1 signal is weak

Cell Line Immunofluorescence Validation

UM-Chor5D Anti-CD24 versus Secondary-only Negative Control



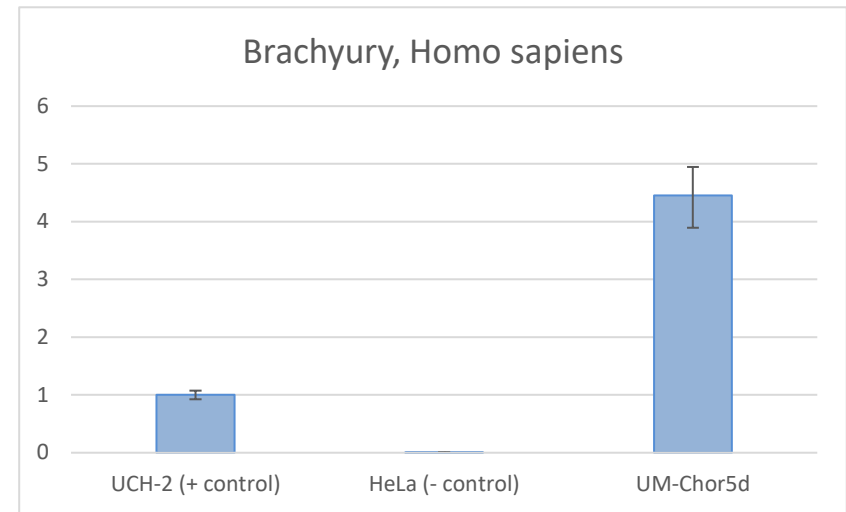
Comments:

CD24 signal is weak

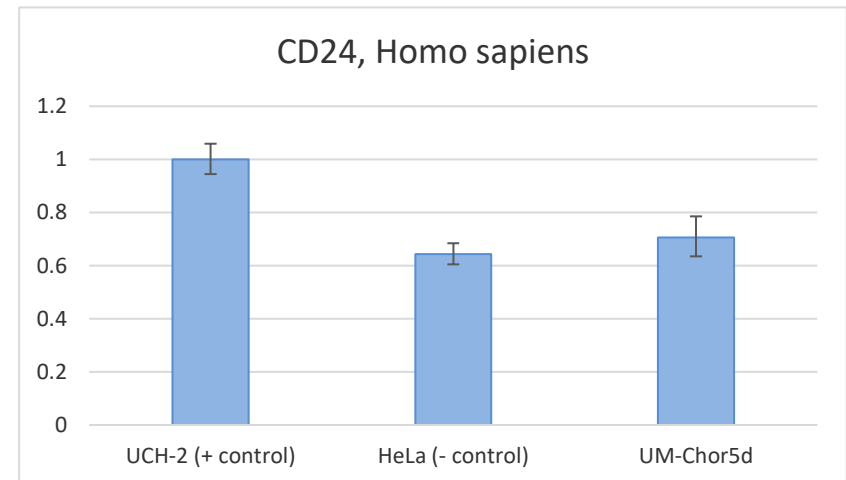
Cell Line PCR Validation

Relative quantification of Brachyury and CD24 gene in UM-Chor5D cell line

Sample	Brachyury, Homo sapiens	Neg. Error	Pos. Error
UCH-2 (+ control)	1	0.07035358	0.07567779
HeLa (- control)	0.00121747	5.4058E-05	5.657E-05
UM-Chor5D	4.45237519	0.49552374	0.55757908



Sample	CD24, Homo sapiens	Neg. Error	Pos. Error
UCH-2 (+ control)	1	0.05553702	0.05880275
HeLa (- control)	0.64365866	0.03854601	0.04100142
UM-Chor5D	0.70646283	0.07123975	0.07922923



Cell Line Validation Results

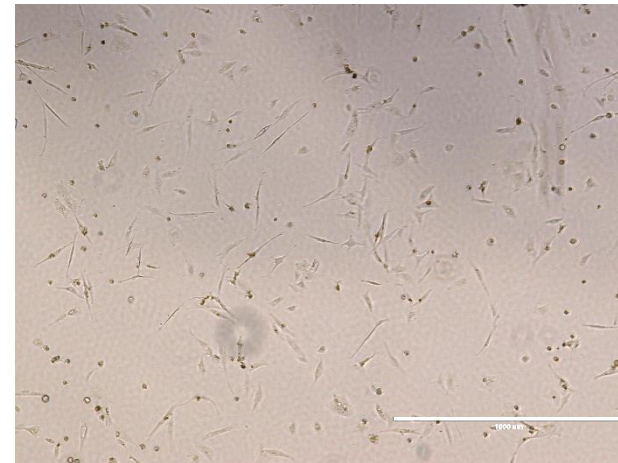
Results summary report of UM-Chor5D

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

Cell lot generated

Stock Lot#	1033-106
Cells per vial	300K
Lot Viability	95%
Passages	25

Doubling time = 4.632 days



UM-Chor5D, lot# 1033-106,
Day 3 after thawing