

# Chordoma Foundation Cell Line Validation

## UM-Chor-5C

Cell Line Phenotype and Expression  
Analysis Report

April 29, 2019

# Cell Line Receiving

Format Received	Date Received	Condition	Quantity	Passage	Initial Cell Count	Initial Cell Viability
Live Cells	February 26, 2019	N/A	2x -T25	18	n/a	n/a

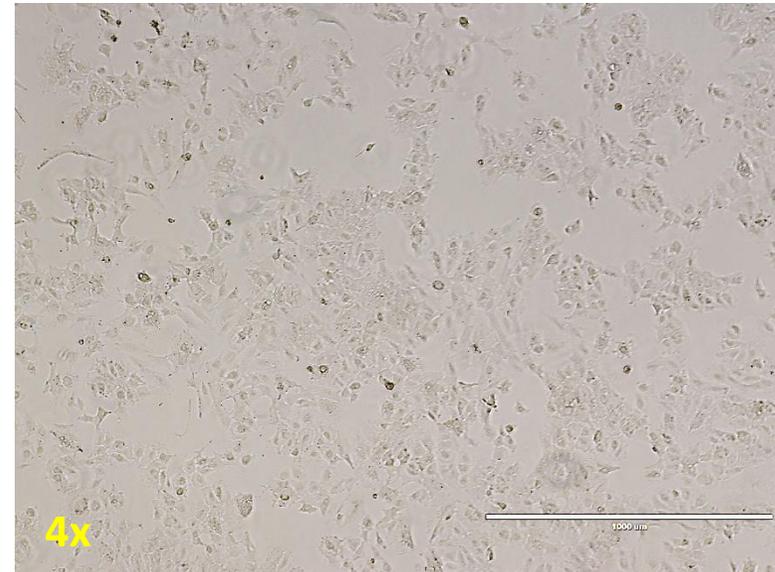
## Growth Conditions

Media:

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

→ Passage when ~80-90% confluent

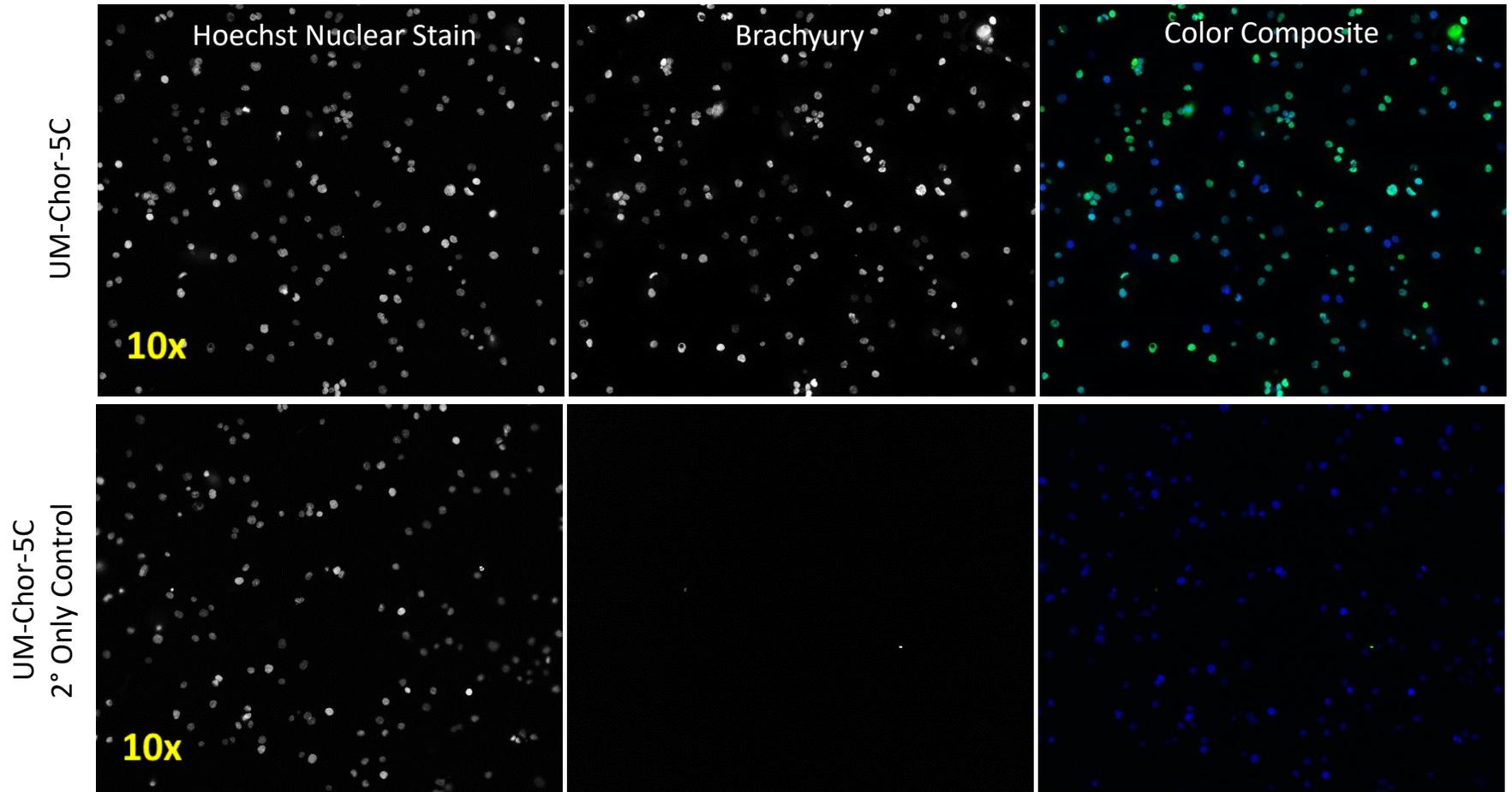
→ Change media every 2-3 days



UM-Chor-5C arrival, live in T25

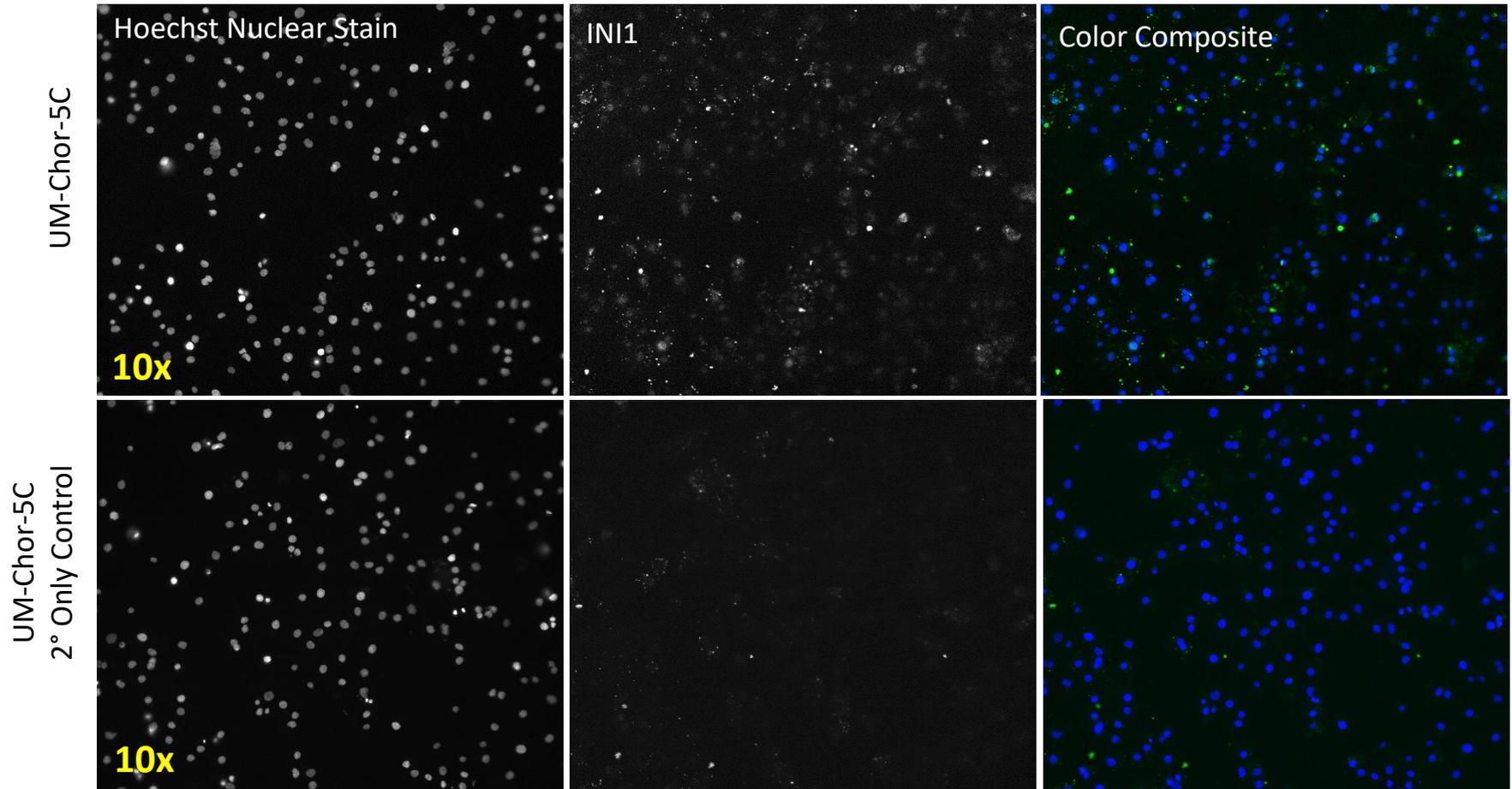
# Cell Line Immunofluorescence Validation

UM-Chor-5C Anti-Brachyury versus Secondary-only Negative Control



# Cell Line Immunofluorescence Validation

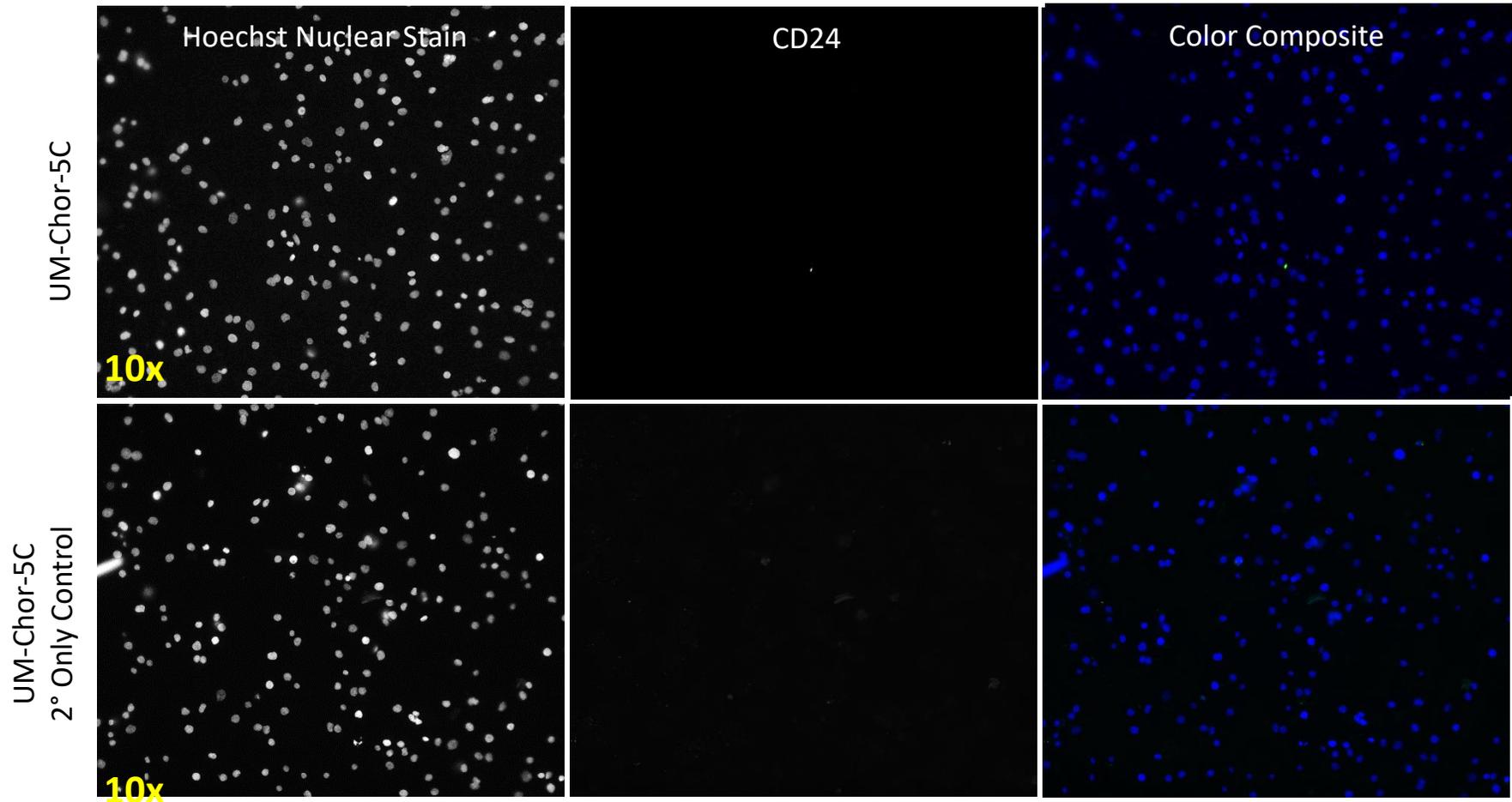
UM-Chor-5C Anti-INI1 versus Secondary-only Negative Control



Comments:  
INI1 signal is weak

# Cell Line Immunofluorescence Validation

UM-Chor-5C Anti-CD24 versus Secondary-only Negative Control



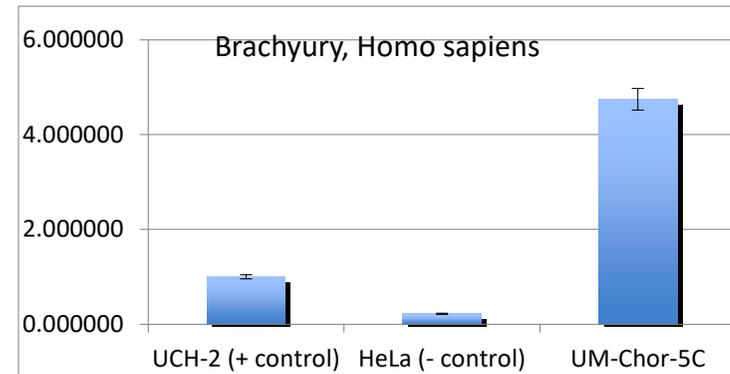
**Comments:**

CD24 signal is weak

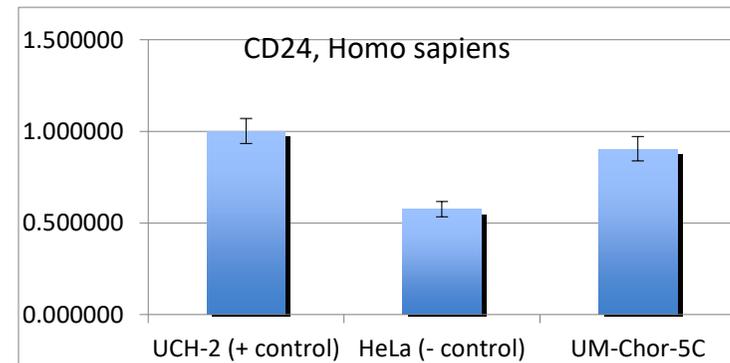
# Cell Line PCR Validation

Relative quantification of Brachyury and CD24 gene in UM-Chor-5C cell line

Sample	Brachyury, Homo sapiens	Neg. Error	Pos. Error
UCH-2 (+ control)	1.000000	0.044385	0.046446
HeLa (- control)	0.219860	0.012391	0.013131
UM-Chor-5C	4.740660	0.220006	0.230713



Sample	CD24, Homo sapiens	Neg. Error	Pos. Error
UCH-2 (+ control)	1.000000	0.065944	0.070600
HeLa (- control)	0.574054	0.039718	0.042670
UM-Chor-5C	0.902485	0.064332	0.069270



# Cell Line Validation Results

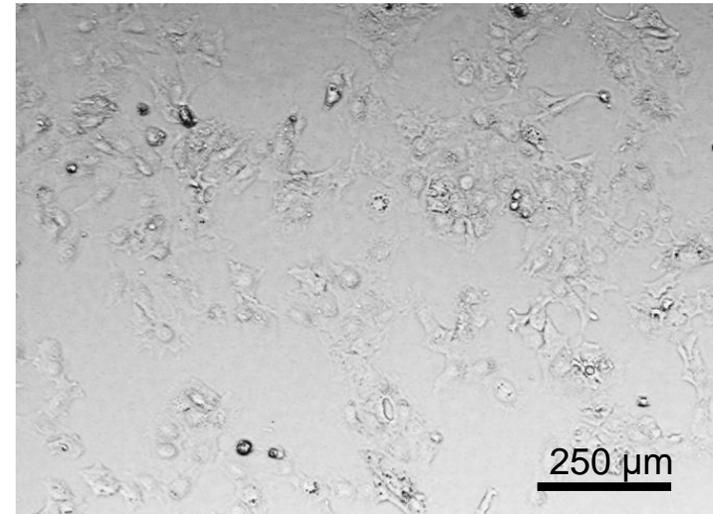
Results summary report of UM-Chor-5C

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#	1033-104
Cells per vial	300K
Lot Viability	82%
Passages	25

Doubling time = 3.794 days



UM-Chor-5C, lot# 1033-104,  
Day 4 after thawing