Cell Line Validation U-CH22

Cell morphology, growth and Brachyury expression analysis

02/04/2025

CELL LINE RECEIVING INFORMATION

Format Received	Date Received	Condition	Quantity	Passage	Initial Cell Count	Initial Cell Viability (%)
Frozen Vials	February 24th, 2025	Equivalent to 100% confluent 25cm² flask	20	p59	n.d. (approx. 2-3 million)	>95%

CELL GROWTH CONDITIONS

GROWTH CONDITIONS

Media: 4:1 IMDM/RPMI 1640 + 10% FBS + Pen/Strep + I-glutamine

Coating: Standard flasks for adherent cells

Passaging: Passage when ~95-100% confluent (1:4 max)

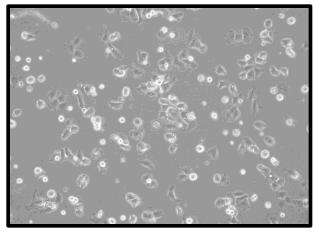
Media Change Frequency: approx. every 3 days (depending on cell density)

Percentage Viable Cells After Thawing: >95%

MORPHOLOGY

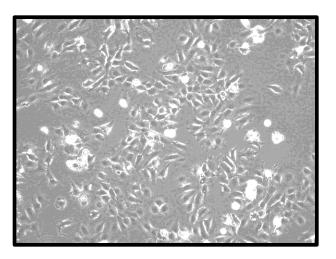
MORPHOLOGY:

"epithelial" shaped, barely physaliferous



CELLS 24 HOUR POST THAWING (~70% ADHERENT)

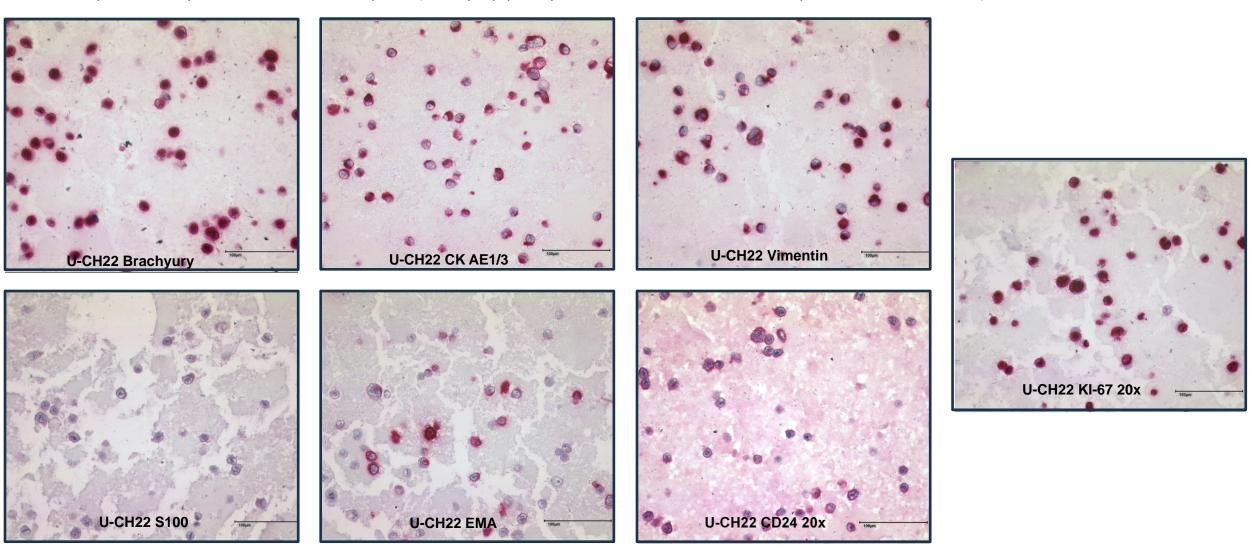
barely physaliferous



CELLS 3 DAYS POST THAWING

CELL LINE ICC VALIDATION

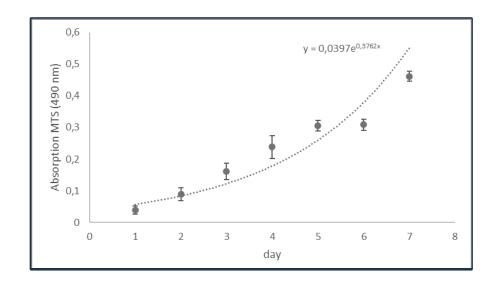
Immuncytochemistry of a chordoma marker panel (Brachyury, pan-cytokeratin, Vimentin, EMA, S100 protein, CD24 and KI-67) in U-CH22



Description: U-CH22 cells show a strong positivity for Brachyury, pan-cytokeratin, vimentin, a questionable / very weak positivity for S100 potein, a partial positivity for EMA, and medium positivity for CD24. KI-67 index is >90%.

STR ANALYSIS

POPULATION DOUBLING TIME: 2-3 days



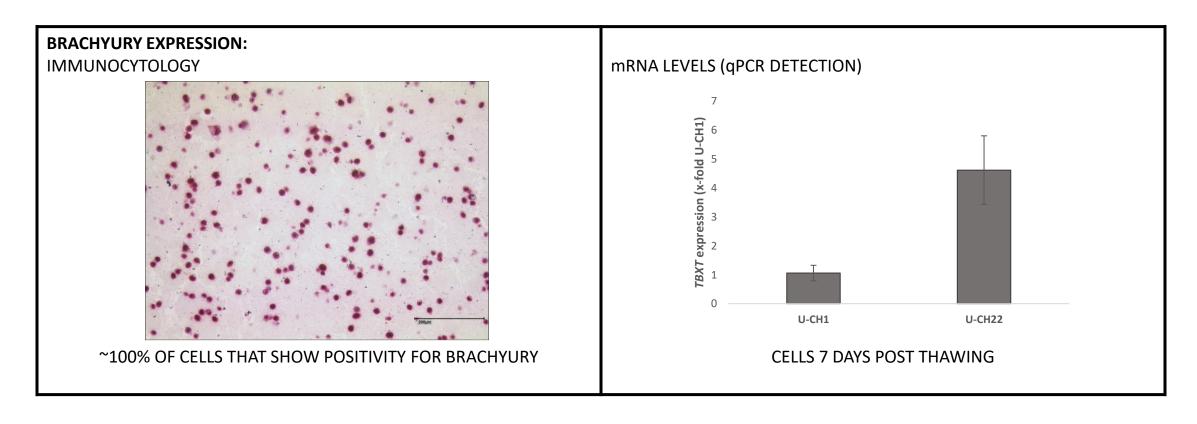
Cell growth rates were calculated from an actively growing culture. Growth rates might be slower when calculated from a fresh thaw.

• STR PROFILE:

	Amel	D13	S317	D7S	820	D16	S539	Pen	ta E	TH	101	D18	S51	D3S1	.358	D8S	1179	TP	ОХ	CSF	1PO	Penta D
U-CH22	X	8	10	8		9	12	10	20	9	9.3	15	16	(15)	16	9	13	9	11	11	12	9

BRACHYURY EXPRESSION

CELL LINE: U-CH22



CELL LINE VALIDATION RESULTS

TEST	SPECIFICATION	RESULTS
CELL GROWTH	IMMORTILIZED	DOUBLE TIME = 2-3 days
STR ANALYSIS	HUMAN, UNIQUE	PASS
ICC VALIDATION	SIGNAL IN NUCLEUS	PASS
PCR VALIDATION	EXPRESSING BRACHYURY	PASS

VALIDATION RESULT: The cell line meets the criteria for being a chordoma cell line.

CELL LOT GENERATED

STOCK LOT #	
CELLS PER VIAL	n.d. approx. 2-3 million
LOT VIABILITY	>95%
PASSAGES	p. 59