

SK-MEL-28 | 300337

SK-MEL-28

Description	SK-MEL-28 is a human melanoma cell line established from a 51-year-old male patient (T.Takahashi) with a primary cutaneous melanoma. The cells are of epithelial origin and are highly tumorigenic in nude mice.
Organism	Human
Tissue	Melanoma
Disease	Melanoma
Synonyms	SK-Mel-28, SK.MEL.28, SK-MEL 28, SK MEL-28, SK MEL 28, SK Mel 28, SKMel-28, SKMEL-28, SK-MEL28, SK-Mel28, SK Mel28, SKMEL28, SKMel28, SKmel28, SKML-28, SK28, AU-Mel, P-36, P36

SK-MEL-28

Age	51 years
Gender	Male
Morphology	Epithelial
Growth properties	Adherent

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Citation	SK-MEL-28 (SK-MEL-28) Cytion 300337
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0526

SK-MEL-28

Protein expression	P53, P21, P27, P29, P30, P31, P32, P33, P34, P35, P36, P37, P38, P39, P40, P41, P42, P43, P44, P45, P46, P47, P48, P49, P50, P51, P52, P53, P54, P55, P56, P57, P58, P59, P60, P61, P62, P63, P64, P65, P66, P67, P68, P69, P70, P71, P72, P73, P74, P75, P76, P77, P78, P79, P80, P81, P82, P83, P84, P85, P86, P87, P88, P89, P90, P91, P92, P93, P94, P95, P96, P97, P98, P99, P100
Isoenzymes	PGM3, 1, PGM1, 1, ES-D, 1, AK-1, 1-2, GLO-1, 2, G6PD, B

SK-MEL-28 | 300337

Tumorigenic	Yes, tumorigenic in immunocompromised mice (e.g., NOD-SCID or NSG mice)
Products	Cell suspension
Mutational profile	BRAF V600E: Homozygous BRAF V600E mutation detected by Sanger sequencing DNA (Total RNA, RT-PCR) confirmed by Western blot analysis (Western blotting)
Characteristics	Highly proliferative, anchorage dependent, adherent growth
Culture Medium	DMEM, w: 4.5 g/L D-glucose, w: 4 mM L-glutamine, w: 3.7 g/L NaHCO ₃ , w: 1.0 mM sodium pyruvate (Sigma), supplemented with 10% FBS (Cytion 820300a)
Supplements	10% FBS
Dissociation Reagent	Trypsin
Subculturing	Cells are typically passaged every 3-5 days. Cells are trypsinized and resuspended in DMEM + 10% FBS medium. Cells are seeded at a density of approximately 1 x 10 ⁵ cells per well in 96-well plates.
Split ratio	Typically 1:3 split ratio
Fluid renewal	2-3 times weekly
Post-Thaw Recovery	Cells typically reach confluence within 48 hours after thawing and are ready for experimentation within 72 hours.
Freeze medium	DMEM + 10% FBS, 10% DMSO (Sigma) + 10% FBS (Cytion 820300a) + 10% DMSO (Sigma)

SK-MEL-28 | 300337

Thawing and Culturing Cells

- [illegible]

Incubation Atmosphere

37°C, 5% CO₂, ☐☐☐☐☐☐☐☐ ☐☐☐.

Flask Coating

□□ □□□

Freezing Procedure

[illegible]

Shipping Conditions

[illegible]

Storage Conditions

[illegible]

Sterility

[illegible]

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STR

Amelogenin: x,y
CSF1PO: 10,12
D13S317: 11,12
D16S539: 9,12
D5S818: 13
D7S820: 10
TH01: 7
TPOX: 8,12
vWA: 16,19
D3S1358: 16,18
D21S11: 28,29
D18S51: 12,16
Penta E: 8,12
Penta D: 9,1
D8S1179: 13
FGA: 19

HLA

A*: 11:01:01
B*: '40:01:02
C*: 03:04:01
DRB1*: 04:04:01
DQA1*: 03:01:01
DQB1*: 03:02:01
DPB1*: 03:01:01
E: 01:03:02