

Product sheet

SK-N-MC | 300340

General information

Description	SK-N-MC cell line established by J.L. Biedler in 1971. It is a neuroblastoma cell line that has been immortalized by the SV40 virus. It is a highly tumorigenic cell line that can form teratomas in nude mice. It is a highly invasive cell line that can metastasize to various organs. It is a highly sensitive cell line to various cytotoxic agents.
Organism	Human
Tissue	Neuroblastoma
Disease	Neuroblastoma
Metastatic site	Various organs
Synonyms	SKNMC, SK-NM-C, SK-NMC

Cell characteristics

Age	12 months
Gender	Male
Ethnicity	White
Morphology	Epithelial cells
Growth properties	Adherent

Cell culture conditions

Citation	SK-N-MC (ATCC CCL-221) Cytion 300340
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0530

Cell culture media

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Antigen expression	HLA O, Rh+
Isoenzymes	Me-2, 2, PGM3, 1-2, PGM1, 1, ES-D, 2, AK-1, 1, GLO-1, 1-2, G6PD, B
Tumorigenic	Yes, tumorigenic in immunocompromised mice
Karyotype	46,XX,der(1)t(1;2)(p11;p11),der(2)t(1;2)(p11;p11),der(3)t(1;2)(p11;p11),der(4)t(1;2)(p11;p11),der(5)t(1;2)(p11;p11),der(6)t(1;2)(p11;p11),der(7)t(1;2)(p11;p11),der(8)t(1;2)(p11;p11),der(9)t(1;2)(p11;p11),der(10)t(1;2)(p11;p11),der(11)t(1;2)(p11;p11),der(12)t(1;2)(p11;p11),der(13)t(1;2)(p11;p11),der(14)t(1;2)(p11;p11),der(15)t(1;2)(p11;p11),der(16)t(1;2)(p11;p11),der(17)t(1;2)(p11;p11),der(18)t(1;2)(p11;p11),der(19)t(1;2)(p11;p11),der(20)t(1;2)(p11;p11),der(21)t(1;2)(p11;p11),der(22)t(1;2)(p11;p11),der(23)t(1;2)(p11;p11),der(24)t(1;2)(p11;p11),der(25)t(1;2)(p11;p11),der(26)t(1;2)(p11;p11),der(27)t(1;2)(p11;p11),der(28)t(1;2)(p11;p11),der(29)t(1;2)(p11;p11),der(30)t(1;2)(p11;p11),der(31)t(1;2)(p11;p11),der(32)t(1;2)(p11;p11),der(33)t(1;2)(p11;p11),der(34)t(1;2)(p11;p11),der(35)t(1;2)(p11;p11),der(36)t(1;2)(p11;p11),der(37)t(1;2)(p11;p11),der(38)t(1;2)(p11;p11),der(39)t(1;2)(p11;p11),der(40)t(1;2)(p11;p11),der(41)t(1;2)(p11;p11),der(42)t(1;2)(p11;p11),der(43)t(1;2)(p11;p11),der(44)t(1;2)(p11;p11),der(45)t(1;2)(p11;p11),der(46)t(1;2)(p11;p11),der(47)t(1;2)(p11;p11),der(48)t(1;2)(p11;p11),der(49)t(1;2)(p11;p11),der(50)t(1;2)(p11;p11)
Culture Medium	EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO3, w: EBSS (Gibco Cytion 820100a)
Supplements	10% FBS 1% NEAA
Dissociation Reagent	Trypsin
Doubling time	32 hours
Subculturing	Cells are grown in 25 cm2 flasks. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks. The seeding density is 1 x 10^5 cells per flask. The cells are grown in 25 cm2 flasks. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks. The seeding density is 1 x 10^5 cells per flask.
Split ratio	1:2 to 1:10
Seeding density	1 x 10^5 cells per flask
Fluid renewal	2 to 3 times per week
Post-Thaw Recovery	Cells are grown in 25 cm2 flasks. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks. The seeding density is 1 x 10^5 cells per flask. The cells are grown in 25 cm2 flasks. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks. The seeding density is 1 x 10^5 cells per flask.
Freeze medium	DMEM + 10% FBS + 10% DMSO, CM-1 (Gibco Cytion 800100), 10% FBS

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**Thawing and
Culturing Cells**

1. 将细胞冻存管放入 37°C 水浴中快速解冻，离心 5 分钟，弃去上清液，用无血清培养基洗涤细胞 2 次，然后加入含有 10% 胎牛血清 (FBS) 的完全培养基，将细胞接种到预先铺有细胞贴壁因子的培养瓶中。
2. 将细胞放入培养箱中，在 37°C、5% CO₂ 条件下培养 24 小时，使细胞贴壁。
3. 更换为不含 FBS 的完全培养基，继续培养 24 小时，使细胞适应无血清环境。
4. 将培养基更换为不含 FBS 的完全培养基，继续培养 24 小时。
5. 将培养基更换为不含 FBS 的完全培养基，继续培养 24 小时。
6. 将培养基更换为不含 FBS 的完全培养基，继续培养 24 小时。
7. 将培养基更换为不含 FBS 的完全培养基，继续培养 24 小时。
8. 将培养基更换为不含 FBS 的完全培养基，继续培养 24 小时。

**Incubation
Atmosphere**

37°C, 5% CO₂, 饱和湿度

Flask Coating

见附表

**Freezing
Procedure**

将细胞悬液与冻存液按 1:1 比例混合，分装到冻存管中，置于 -80°C 冰箱中冻存。

**Shipping
Conditions**

将细胞冻存管放入干冰中，置于 -80°C 冰箱中保存。

**Storage
Conditions**

将细胞冻存管放入干冰中，置于 -80°C 冰箱中保存。

Amelogenin: X, X

Sterility

本产品经过严格的无菌处理，不含任何细菌、真菌、支原体、病毒等污染物。PCR 检测结果显示，Amelogenin 基因型为 X, X。

STR

Amelogenin: X, X

Product sheet

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██████ HLA

A*: '01:01:01, '25:01:01
B*: '08:01:01, '08:01:01G
C*: 07:01:01
DRB1*: '03:01:01, '15:01:01G
DQA1*: '01:02:01, '05:01:01
DQB1*: '02:01:01, '06:02:01
DPB1*: '01:01:01, '04:02:01
E: 01:01:01