K7M2 wt

305188

GENERAL INFORMATION

Description

K7M2 wt □胞系来源于小鼠骨肉瘤，经常被用于癌症研究，特别是用于研究骨肉瘤的发病机制和治疗反应。这种 □胞系的特点是转移潜力大，因此是研究癌症转移机制和测试抗转移药物的宝贵模型。K7M2 wt □胞具有典型的上皮形态，体外生长旺盛，有利于基因表达研究、药物筛选和遗传操作等各种实验应用。

研究人员利用 K7M2 wt □胞系探索骨肉瘤发展过程中的分子和 □胞过程。研究通常侧重于信号通路，如 Wnt/β-catenin和PI3K/AKT通路，它们对肿瘤的生长和转移至关重要。

K7M2 wt□胞的基因图谱包括骨肉瘤常见的基因改变，为了解这种恶性肿瘤的基因驱动因素提供了线索。此外，该 □胞系还有助于新治疗方法（包括靶向治疗和免疫治疗）的临床前测试，为将研究成果转化为潜在的临床应用提供了一个平台。

Tissue	腹水
Disease	小鼠骨肉瘤
Metastatic site	肺部

Applications

骨肉瘤研究；同基因型BALB/c肿瘤模型；转移建模；Wnt/β-catenin和PI3K/AKT通路研究；抗肿瘤药物评价；免疫疗法测试；补体和 Fc受体生物学

Synonyms

- K7M2-WT
- K7M2

CLASSIFICATION

Organism	Mouse
Sex	Female
Growth properties	Adherent
GMO status	Non-GMO

GMO status details

No genetic modification; wildtype murine osteosarcoma cell line derived from BALB/c mice

Biosafety level	1

CHARACTERISTICS

Cell type	成骨□胞
Tumourigenic	是

IDENTIFIERS

Citation

K7M2 wt（Cytion 目录号 305188）

NCBI TaxID	10090
Cellosaurus	CVCL_V455

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Banking information
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IBAN: DE35 6725 0020 0009 2076 86
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EXPRESSION AND SUSCEPTIBILITY

Receptors expressed

□□□C3□□□□□Fc □□□IgG□□□□□ I□Fcgr1□□□□

HANDLING AND CULTURE

Culture medium

DMEM□w□4.5 □/□□□□□w□4 □□□ L-□□□□□w□3.7 □/□ NaHCO3□w□1.0 □□□□□□□□Cytion □□ 820300a□□

Incubation atmosphere	37°C, 5%CO2, □□□□□

Supplements

□□□□□□□ 10% FBS

Dissociation reagent	Accutase

Subculturing

□□□□□□□□□□□□□□□□□□□□□ PBS □□□T25 □□□ 3-5 □□ PBS□T75 □□□ 5-10 □□□□□□ Accutase □□□□□□□T25 □□□ 1-2 □□□T75 □□□ 2.5 □□□□□□□□□□□□ 8-10 □□□□□□□□□□□□□ 10 □□□□□□□□□□□□□□□□□□□ 300xg □□ 3 □□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□

Fluid renewal	□□ 2 □ 3 □

Thawing and culturing

Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.
Upon receipt, either store the cryovial immediately at temperatures below -150°C to ensure the preservation of cellular integrity, or proceed to step 3 if immediate culturing is required.
For immediate culturing, swiftly thaw the vial by immersing it in a 37°C water bath with clean water and an antimicrobial agent, agitating gently for 40-60 seconds until a small ice clump remains.
Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
Carefully open the disinfected vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of room-temperature culture medium, mixing gently.
Centrifuge the mixture at 300 x g for 3 minutes to separate the cells and carefully discard the supernatant containing residual freezing medium.
Gently resuspend the cell pellet in 10 ml of fresh culture medium. For adherent cells, divide the suspension between two T25 culture flasks; for suspension cultures, transfer all the medium into one T25 flask to promote effective cell interaction and growth.
Adhere to established subculture protocols for continued growth and maintenance of the cell line, ensuring reliable experimental outcomes.

QUALITY CONTROL AND CRYOPRESERVATION

Sterility

□□□□ PCR □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
□□

Freeze medium	□□□□□□□□□□□□□□□ FBS□+10% DMSO □ CM-1□Cytion □□□□□□ 800100□□□□□□□□□ □□□□□□□□□□□□□□□□□CM-1□Cytion □□□□□□ 800100□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□

Storage conditions

□□□□□□□□□□□□□□□□□□□□□□□□□ -150 □ -196 ℃□□-80 °C□□□□□□□□□□□□□□□□□□

Shipping conditions

□□ -78 °C □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

DONOR

Breed / subspecies	BALB/c
Donor age	895 □

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LEGAL AND SAFETY

Safety precautions

计划将低温样品储存在液氮中以便将来解冻时，必须遵守严格的安全措施。在将冷冻样本移入或移出液氮罐时，必须穿戴适当的防护手套和防护服，并使用面罩或安全护目镜。这样做是为了降低在移出时因冷冻样品爆炸而造成伤害的风险，因为爆炸可能导致锋利的碎片飞溅。

Warranty

在Cytion，我们保证产品的质量和活力。
我们保证，从我们的工厂发货后 60 天内，我们的□胞在开始培养时都是存活的。
我们保证所有材料均符合分析证书和/或产品说明书中描述的规格。
有关详□信息，请参阅我们的 <a href="" /Who-we-are/Warranty/"" hreflang=""x-default"">保修声明。

Material Transfer Agreement required	Yes

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