KMS-12-BM

300287

GENERAL INFORMATION

Description

KMS-12-BM □胞系是一种人类骨髓瘤□胞系，从一名非产生型多发性骨髓瘤患者的骨髓中提取。该□胞系代表了 B □胞分化的未成熟浆□胞阶段，其特点是表达表面标志物 CD20、CD38 和 PCA-1，但不产生免疫球蛋白。这些□胞的显著特征是形态扭曲，许多□胞呈现多核和巨型特征。从超微结构上看，KMS-12-BM □胞具有发达的粗面内质网和卵圆形偏心核，染色质呈周边分布，是典型的浆□胞。

KMS-12-BM□胞表现出染色体异常，尤其是t(11;14)(q13;q32)互变，这通常与多发性骨髓瘤有关。这些□胞的染色体数目范围也很广，从低二倍体到多倍体都有，表明其基因组极不稳定。与对应的 KMS-12-PE □胞系不同，KMS-12-BM □胞系不产生淀粉酶，缺乏免疫球蛋白分泌或表面表达，因此适用于涉及不产生免疫球蛋白的骨髓瘤的研究。此外，它在软琼脂培养条件下的克隆效率较低，菌落形成率低于 0.1%，注射到裸鼠体内没有致瘤特性。

Tissue	骨髓
Disease	多发性骨髓瘤

Synonyms

- KMS 12 BM
- KMS-12BM
- KMS12-BM
- KMS12BM
- KMS-12
- KMS12
- Kawasaki Medical School-12-Bone Marrow

CLASSIFICATION

Organism	Human
Sex	Female
Growth properties	Suspension
Biosafety level	1

CHARACTERISTICS

Morphology	圆形电池
Cell type	B □胞
Tumourigenic	对裸鼠无致瘤性

IDENTIFIERS

Citation

KMS-12-BM（Cytion 目录号 300287）

NCBI TaxID	9606
Cellosaurus	CVCL_1334

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EXPRESSION AND SUSCEPTIBILITY

Surface antigens

CD3 -□CD10 -□CD13 -□CD19 -□CD20 +□CD34 -□CD37 +□CD38 +□cyCD79a +□CD80 -□CD138 +□HLA-DR -□PCA-1 +□sm/cyIgG -□ sm/cyIgM -□sm/cykappa -□sm/cylambda -□

Mutational profile

□□□t(11;14)(q13;q32)

Products

□□□□□□□□

HANDLING AND CULTURE

Culture medium

RPMI 1640□w□2.0 mM □□□□□□□w□2.0 g/L NaHCO3□Cytion □□□□ 820700a□□

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

Supplements

□□□□□□□ 10% FBS

Subculturing

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Seeding density	5 × 10⁵ □□□/□□

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

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

Storage conditions

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

Shipping conditions

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

DONOR

Donor age	64 岁
Ethnicity	日语

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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