

KC | 300604

General information

Description	KC (Kc167) is a cell line derived from <i>Drosophila melanogaster</i> (fruit fly) embryos. It is a highly proliferative, immortalized cell line that can be used for various applications in developmental biology and genetics. KC cells are highly sensitive to RNAi and CRISPR/Cas9-mediated gene editing. They are also highly responsive to Wnt/Wingless signaling and can be used to study the role of these pathways in development and disease. KC cells are also highly sensitive to BSL-2 and can be used to study the role of this pathway in development and disease.
Organism	<i>Drosophila melanogaster</i> (fruit fly)
Tissue	Embryo
Disease	None
Metastatic site	None (not a metastatic cell line)
Applications	Developmental biology; RNAi; CRISPR/Cas9; Wnt/Wingless signaling; BSL-2 signaling
Synonyms	KC, K C

Cell characteristics

Age	Not applicable
Gender	Not applicable
Morphology	Epithelial, monolayer
Cell type	Embryonic
Growth properties	Highly proliferative

Documentation and references

Citation	KC (Kc167) Cytion 300604
Biosafety level	2
NCBI_TaxID	7227

CellosaurusAccession CVCL_Z833

GMO Status GMO-S2: (Drosophila) SV40

Virus SV40

XIX

Culture α -MEME + 2 mM L-glutamine + 10% FBS (FBS).

Supplements 2

Dissociation

Doubling time ☒-24 ☒☒48 ☒☒☒☒

Subculturing

Split ratio 1 : 3

Seeding 5×10^5 – 1×10^6 /m²

Fluid renewal ☒ 2-3 ☒☒☒☒

Freeze ██████████ ████████ ██████████, ████ ██████████ ██████████ ██████████ ██████████ (██████ FBS) + 10% DMSO ██████████ ██████████ ██████████ ██████████ ██████████ ██████████

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**Thawing and
Culturing Cells**

1.

Remove the vial from the dry ice and immerse it in a water bath at 37°C. Gently swirl the vial to mix the cells. Transfer the cells to a 15 mL centrifuge tube and centrifuge at 300 x g for 5 minutes. Remove the supernatant and resuspend the cells in 1 mL of medium. Seed the cells into a 25 cm² flask and incubate at 37°C in 5% CO₂.
2.

Remove the vial from the dry ice and immerse it in a water bath at 37°C. Gently swirl the vial to mix the cells. Transfer the cells to a 15 mL centrifuge tube and centrifuge at 300 x g for 5 minutes. Remove the supernatant and resuspend the cells in 1 mL of medium. Seed the cells into a 25 cm² flask and incubate at 37°C in 5% CO₂.
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8.

Remove the vial from the dry ice and immerse it in a water bath at 37°C. Gently swirl the vial to mix the cells. Transfer the cells to a 15 mL centrifuge tube and centrifuge at 300 x g for 5 minutes. Remove the supernatant and resuspend the cells in 1 mL of medium. Seed the cells into a 25 cm² flask and incubate at 37°C in 5% CO₂.

**Incubation
Atmosphere**

25°C, 5% CO₂ (humidified air).

**Shipping
Conditions**

Shipped on dry ice, stored at -150°C. Shipping temperature: -78°C.

**Storage
Conditions**

Store at -150°C. Storage time: up to 196 weeks.

RESEARCH ONLY