Subcutaneous mouse tumor models

xenograft tumor model

HeLa: Subcutaneous cervix cancer

Hela cells \succ

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Human HeLa cells were isolated from a patient with a cervix carcinoma.

A Hematoxylen-Eosin stained paraffin section of a subcutaneous HeLa xenograft is shown on the right.

As routine quality controls, the cells are regularly checked for Mycoplasma contamination and authenticity (via STR DNA Typing).

Figure 1: Hematoxylin-Eosin stained paraffin section of a subcutaneous HeLa xenograft.

Take rate 9/9

5

10

dav

3000

2500

1500

1000

500

0.

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(mm³) 2000

tumor volume

Expression of oncology relevant proteins >

Expression data using western blotting and immunohistochemistry are available for a selection of protein kinases. For information, please inquire!

Tumor growth in vivo \geq

HeLa cells harvested from tissue culture flasks are implanted into the subcutaneous space of the left flank of the mice. Resulting tumors are monitored by calipering twice weekly.

Animal weights are measured three times weekly. Animal behaviour is monitored daily. All mice are maintained in separated isolated housing at constant temperature and humidity.

Accessory services: tumor wet weight and volume measurement at necropsy, blood sampling, flow cytometry, paraffin embedding of tumor tissue, histological & pathological analysis, cytokine determination, provision of tumor tissue for target validation.

Study example \geq

In the study shown here, one group of mice bearing subcutaneous HeLa xenografts was treated with Doxorubicin, the other group with vehicle only. Treatment started after randomisation when tumor volumes had reached a size of approximately 100-150 mm3.

HeLa cells in vivo. Tumor volume, mean values +/- SEM

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