

OCM.109

Catalogue number: 161892

Sub-type:

Images:

Contributor

Inventor: Louisa Nelson and Stephen S. Taylor

Institute: University of Manchester

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: OCM.109

Alternate name:

Class:

Conjugate:

Description: The Taylor lab Ovarian Cancer Models (OCMs) are patient-derived tumour cell cultures, unfettered by contaminating, genetically normal stromal cells and the microenvironment. OCMs display the hallmark characteristics of HGSOC and retain the unique molecular features of the original tumour. OCMs have extensive proliferative potential, enabling high-resolution cell biology and drug-sensitivity profiling on tumour cells 'close to the patient', i.e. without extensive culture and genetic drift. OCMs are clinically annotated, and have been extensively characterised with associated data sets being publicly available (including multi-omics data e.g. exome and RNA sequencing, and single-cell karyotyping). OCMs can also be used to generate PDX, thus enabling in vivo studies of novel therapies. Collectively, this living biobank represents comprehensive platform for basic research and drug development projects (see PMID: 37592171 for a review)

Purpose:

Parental cell:

Organism: Human

Tissue: Ovary. NOTE: The precursor of a substantial proportion of HGSOC is likely to be serous tubal intraepithelial carcinoma in the fimbriae of the fallopian tubes

Model:

Gender: Female

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

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Immunogen UNIPROT ID:

Sequence:

Growth properties: Adherent

Production details: To establish cultures, red blood cells were lysed, the remaining cellular fraction harvested by centrifugation, disaggregated if necessary then plated in OCMI media. Serial passaging and selective detachment eliminated white blood cells and yielded separate tumour and stromal fractions.

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target:

Target alternate names:

Target background:

Molecular weight:

Ic50:

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Applications

Application: Ex vivo drug-sensitivity profiling; OCM-derived xenograft generation

Application notes:

Handling

Format: Frozen

Concentration:

Passage number: Approx. P20

Growth medium: OCMI (PMID: 26080861; 32054838) + 5% hyclone FBS

Temperature: 37° C

Atmosphere: 5% CO2 & 5% O2

Volume:

Storage medium: Bambanker freezing solution

Storage buffer:

Storage conditions: Liquid nitrogen (1/2 T75 ISO)

Shipping conditions: Dry ice

Related tools

Related tools:

References

References:

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