

Immortalised Human Melanocyte [PIG21] Cell Line

Catalogue number: 154100

Sub-type: Continuous

Images:

Contributor

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Institute:

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Immortalised Human Melanocyte [PIG21] Cell Line

Alternate name:

Class:

Conjugate:

Description: Melanocytes are the cell of origin for a number of conditions including melanoma an aggressive type of skin cancer and vitiligo a long-term condition characterised by patches of the skin losing their pigment. Melanoma is the most dangerous type of skin cancer. Globally, in 2012, it newly occurred in 232,000 people. In 2015 there were 3.1 million with active disease which resulted in 59,800 deaths. Australia and New Zealand have the highest rates of melanoma in the world. While Vitiligo affects 1% of the worlds population with no known cause. Immortalised melanocytes can be used as a tool for research into different melanocytic lineages

Purpose:

Parental cell: Human foreskin

Organism: Human

Tissue:

Model: Immortalised Line

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties: Cells were routinely passaged 1:4 at confluency

Production details: Melanocyte cultures were established from neonatal foreskin using standard methods. Melanocytes from passage 16 were transfected with HPV16 genes E6 and E7 using the retroviral construct LXCN16E6E7. The E6E7 genes are under the control of the MMLV promoter-enhancer sequence. In addition the vector contained a geneticin resistance gene. The retroviral particles were produced by the packaging cell line PA317. The critical concentration of geneticin for transformed selection was 1mg/ml.

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target:

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:

Application notes:

Handling

Format: Frozen

Concentration:

Passage number:

Growth medium: Ham's F10 medium supplemented with 10ng/ml tetradecanoly phorbol 13-acetate (TPA), 0.1mM 3-isobutyl-methyl-xanthine (IBMX), 1% vol/vol Ultrosor G, 2mM glutamine, 100 IU/ml penicillin and 100µg/ml streptomycin

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions: Liquid Nitrogen

Shipping conditions:

Dry ice

Related tools

Related tools:

References

References: Ivanova et al. 2008. In Vitro Cell Dev Biol Anim. 44(8-9):385-95. PMID: 18594937; Le Poole et al. 1997. In Vitro Cell Dev Biol Anim. 33(1):42-9. PMID: 9028834

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