

H357 Cell Line

Catalogue number: 153422

Sub-type:

Images:

Contributor

Inventor: Stephen Prime

Institute: University of Bristol

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: H357 Cell Line

Alternate name:

Class:

Conjugate:

Description: Established from a squamous cell carcinoma (SCC) of the tongue (20mm) of a 74 year-old male patient. STNMP stage I, well differentiated, node negative tumour. Mutant p53, codon 110 exon 4, G to A; the previously reported mutant Ha-ras status of this cell line: codon: 13, G to A, codon 61, A-G is under investigation. This cell line is highly responsive to TGF beta and undergoes epithelial to mesenchymal transition. It expresses high levels of TGF beta1. Fahey et al (1996). Tumourigenic in athymic nude mice on subcutaneous injection and non-tumorigenic on orthotopic injection. Haplotype information: A*02,A*31; B*40,B*44; Cw*03,Cw*05

Purpose:

Parental cell:

Organism:

Tissue: Tongue

Model: Tumour line

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties: Adherent

Production details:

Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: Human oral squamous cell carcinoma, tongue

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:
Application notes:

Handling

Format: Frozen

Concentration:

Passage number:

Growth medium: Split sub-confluent cultures (70-80%), approximately every 5-6 days, 1:8 to 1:10 using 0.25% trypsin/EDTA; 5% CO₂; 37°C. Suggested seeding density 5 x 1000 cells/cm². Cells can take approximately 10 minutes to detach, an alternative is to trypsinise 2 to 3 times with fresh trypsin for shorter periods for each trypsin application. Avoid knocking flasks during the trypsinisation process as this can lead to loss of viability. DMEM:HAMS F12 (1:1) + 2mM Glutamine + 10% Foetal Bovine Serum ...

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions:

Shipping conditions: Dry ice

Related tools

Related tools:

References

References: Yeudall et al. 1995. Eur J Cancer B Oral Oncol. 31B(2):136-43. PMID: 7633286. ; Presence of human papillomavirus sequences in tumour-derived human oral keratinocytes expressing mutant p53. ; Prime et al. 1994. Int J Cancer. 56(3):406-12. PMID: 7508893. ; TGF-beta receptor regulation mediates the response to exogenous ligand but is independent of the degree of cellular differentiation in human oral keratinocytes. ; Prime et al. 1994. Br J Cancer. 69(1):8-15. PMID: 8286215. ; Epidermal growth factor and transforming growth factor alpha characteristics of human oral carcinoma cell lines. ; Yeudall et al. 1993. Eur J Cancer B Oral Oncol. 29B(1):63-7. PMID: 8180579. ; Ras gene point mutation is a rare event in premalignant tissues and malignant cells and tissues from oral mucosal lesions. ; Prime et al. 1990. J Pathol. 160(3):259-69. PMID: 1692339. ; The behaviour of human oral squamous cell carcinoma in cell culture.

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