

H314 Cell Line

Catalogue number: 153421

Sub-type:

Images:

Contributor

Inventor: Stephen Prime

Institute: University of Bristol

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: H314 Cell Line

Alternate name:

Class:

Conjugate:

Description: Established from a squamous cell carcinoma (SCC) of the floor of the mouth (20mm-40mm) of an 82 year-old male patient. STNMP stage II, moderately differentiated, node positive tumour. Mutant p53, codon 176 exon 5, G to T and 373 exon 11, A to G; wild type K-, N- and Ha-ras. Tumourigenic in athymic nude mice on subcutaneous injection; on injection into the floor of the mouth, cells spread to lymphatics and lymph nodes. By short tandem repeat (STR)-PCR analysis the Y chromosome could not be detected in this cell line when tested at ECACC. It is a known phenomenon that SSC cell lines can lose their Y chromosome.

Purpose:

Parental cell:

Organism:

Tissue: Oral Cavity

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, floor of mouth

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 6-7 days, 1:8 to 1:10 using 0.25% trypsin/EDTA; 5% CO₂; 37°C. Suggested seeding density 7 x 1000 cells/cm². DMEM:HAMS F12 (1:1) + 2mM Glutamine + 10% Foetal Bovine Serum (FBS) + 0.5 ug/ml sodium hydrocortisone succinate

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. 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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