

SiHa | 305023

General information

Description	SiHa is a cell line derived from a cervical carcinoma. It is characterized by its high growth rate and its ability to form colonies in soft agar. SiHa cells are p53+ and pRB+, indicating a functional p53 and pRB pathway. They are also DNA diploid and have a normal karyotype. SiHa cells are HPV-16 positive, which is a common feature of cervical carcinomas. SiHa cells are also positive for various enzymes, including AK-1, ES-D, G6PD, GLO-I, Me-2, PGM1 and PGM3. SiHa cells are a valuable tool for studying the biology of cervical cancer and for testing new drugs.
Organism	Human
Tissue	Cervix
Disease	Cervical carcinoma
Synonyms	SIHA

Cell characteristics

Age	55 years
Gender	Female
Ethnicity	White
Morphology	Epithelial
Growth properties	Adherent

Cell culture conditions

Citation	SiHa (Cytion 305023)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0032

SiHa | 305023

Cell Line: SiHa

Tumorigenic Yes

Cell Line: SiHa

Culture Medium EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO₃, w: EBSS (Cytion 820100a)

Supplements 10% FBS 1% NEAA

Dissociation Reagent Trypsin

Subculturing Cells are grown in 25 cm² flasks in EMEM medium supplemented with 10% FBS and 1% NEAA. Cells are passaged when they reach 80-90% confluency. Cells are detached using Trypsin and seeded into new flasks.

Split ratio 1:2 to 1:4

Fluid renewal 2 to 3 times per week

Freeze medium EMEM medium supplemented with 10% FBS and 10% DMSO (Cytion 820100a) + 10% DMSO (Cytion 820100a) + 10% FBS (Cytion 820100a)

- Thawing and Culturing Cells**
1. Thaw cells in a 37°C water bath.
 2. Add cells to a flask containing 10 ml of EMEM medium supplemented with 10% FBS and 1% NEAA.
 3. Incubate cells in a 37°C incubator for 24 hours.
 4. Remove the medium and replace it with fresh EMEM medium supplemented with 10% FBS and 1% NEAA.
 5. Incubate cells in a 37°C incubator for 24 hours.
 6. Remove the medium and replace it with fresh EMEM medium supplemented with 10% FBS and 1% NEAA.
 7. Incubate cells in a 37°C incubator for 24 hours.
 8. Remove the medium and replace it with fresh EMEM medium supplemented with 10% FBS and 1% NEAA.

Product sheet

SiHa | 305023

Incubation
Atmosphere

37°C, 5% CO₂, humidified

Flask Coating

non-adherent

Freezing
Procedure

After seeding, cells are grown to confluence. Cells are then washed with PBS and harvested by trypsinization. Cells are pelleted by centrifugation at 300g for 5 min and resuspended in freezing medium. The suspension is then frozen in a controlled rate freezer and stored at -78°C.

Shipping
Conditions

After seeding, cells are grown to confluence. Cells are then washed with PBS and harvested by trypsinization. Cells are pelleted by centrifugation at 300g for 5 min and resuspended in freezing medium. The suspension is then frozen in a controlled rate freezer and stored at -78°C.

Storage
Conditions

After seeding, cells are grown to confluence. Cells are then washed with PBS and harvested by trypsinization. Cells are pelleted by centrifugation at 300g for 5 min and resuspended in freezing medium. The suspension is then frozen in a controlled rate freezer and stored at -150 to -196 °C in liquid nitrogen.

Genotyping: PCR, sequencing, microarray

Sterility

Cells are grown in the presence of antibiotics (penicillin, streptomycin, fungicide) to ensure sterility. PCR products are also stored at -20°C.

Cells are grown in the presence of antibiotics (penicillin, streptomycin, fungicide) to ensure sterility. PCR products are also stored at -20°C.

STR

Amelogenin: x,x
CSF1PO: 12
D13S317: 11
D16S539: 12
D5S818: 9
D7S820: 10
TH01: 6,9
TPOX: 8
vWA: 14,17
D3S1358: 16,17
D21S11: 31
D18S51: 15
Penta E: 10,12
Penta D: 9
D8S1179: 13,16
FGA: 21
D6S1043: 18
D2S1338: 24
D12S391: 19,22
D19S433: 14