

Product sheet

NCI-H209 | 300183

General Information

<b>Description</b>	NCI-H209 cell line established by A.F. Gazdar in 1979 from a human lung adenocarcinoma. It is a non-small cell lung carcinoma (NSCLC) cell line. The cell line is characterized by a mutation in the RB1 gene (Cys-> Phe).
<b>Organism</b>	Human
<b>Tissue</b>	Lung
<b>Disease</b>	Non-small cell lung carcinoma (NSCLC)
<b>Metastatic site</b>	None
<b>Synonyms</b>	H209, H-209, NCIH209

Cell Line Characteristics

<b>Age</b>	55 years
<b>Gender</b>	Male
<b>Ethnicity</b>	White
<b>Morphology</b>	Epithelial
<b>Growth properties</b>	Adherent

References and Safety

<b>Citation</b>	NCI-H209 (ATCC CCL-1525)   Cytion 300183
<b>Biosafety level</b>	1
<b>NCBI_TaxID</b>	9606
<b>CellosaurusAccession</b>	CVCL_1525

Additional Information

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**Protein expression** P53

**Isoenzymes** G6PD, B, PGM1, 1-2, PGM3, 1, ES-D, 1, Me-2, 0, AK-1, 1, GLO-1, 1-2, = 0.0624

**Tumorigenic**, SCLC

**Products** mRNA p53

**Culture Medium** RPMI 1640, w: 2.0 mM, w: 2.0 g/L NaHCO3 (Cytion 820700a)

**Supplements** 10% FBS

**Subculturing** 5, 5, 6, 5 x 10

**Split ratio** 1:2, 1:3

**Seeding density** 1 x 10<sup>5</sup>

**Fluid renewal** 2, 3

**Freeze medium** (FBS) + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a 37°C water bath. Do not vortex. Transfer the cells to a pre-warmed medium.
2. Centrifuge at 300 x g for 3 minutes. Resuspend in 150 µl of medium. Seed into a 96-well plate.
3. Incubate at 37°C in 5% CO<sub>2</sub> for 24 hours. Media should be replaced after 24 hours.
4. Harvest cells for RNA extraction. Wash cells with PBS. Lyse cells in RNeasy lysis buffer. Purify RNA using RNeasy spin columns.
5. Quantify RNA using a spectrophotometer. Store at -80°C.
6. Perform RT-qPCR using specific primers. Analyze data using qPCR software.
7. Validate results using housekeeping genes.
8. Store RNA samples for future use.

**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>, humidified

**Flask Coating** None

**Freezing Procedure** Harvest cells into RNeasy lysis buffer. Store at -80°C.

**Shipping Conditions** Dry ice, -78°C

**Storage Conditions** -150 to 196 °C

NCI-H209 / HLA

**Sterility** Sterilized by gamma irradiation. PCR confirmed.

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**STR**

**Amelogenin:** x,x  
**CSF1PO:** 11  
**D13S317:** 11  
**D16S539:** 9,12  
**D5S818:** 12  
**D7S820:** 9  
**TH01:** 7,9  
**TPOX:** 8  
**vWA:** 18,19  
**D3S1358:** 18  
**D21S11:** 32.2  
**D18S51:** 13  
**Penta E:** 11,12  
**Penta D:** 11,12  
**D8S1179:** 12,13  
**FGA:** 20,24

**HLA**

**A\*:** '02:01:01, '34:02:01  
**B\*:** 14:01:01, 40:01:02  
**C\*:** 03:04:01, 08:02:01  
**DRB1\*:** '04:05:01, '15:01:01G  
**DQA1\*:** '01:02:01, '03:03:01  
**DQB1\*:** 03:02:01, 06:02:01  
**DPB1\*:** '03:01:01G, '04:01:01G  
**E:** '01:01:01, '01:03