

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, which is a tumor suppressor gene. The mutation is a G to A transition at position 706 (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>CellSaurusAccession</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** T25, 3-5' PBS, 3

**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 water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed medium.
2. Seed the cells into a pre-warmed flask containing 15 mL of medium. Incubate at 37°C with 5% CO<sub>2</sub>.
3. Once the cells have reached confluence, passage them into a new flask. Use a trypsin solution to detach the cells.
4. Seed the cells into a new flask containing 15 mL of medium. Incubate at 37°C with 5% CO<sub>2</sub>.
5. Once the cells have reached confluence, passage them into a new flask. Use a trypsin solution to detach the cells.
6. Seed the cells into a new flask containing 15 mL of medium. Incubate at 37°C with 5% CO<sub>2</sub>.
7. Once the cells have reached confluence, passage them into a new flask. Use a trypsin solution to detach the cells.
8. Seed the cells into a new flask containing 15 mL of medium. Incubate at 37°C with 5% CO<sub>2</sub>.

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

**Flask Coating** None

**Freezing Procedure** Harvest cells into a pre-cooled tube. Add 1 mL of freezing medium. Store at -80°C.

**Shipping Conditions** Ship at -80°C in a dry ice container.

**Storage Conditions** Store at -150°C for up to 196 months.

Genotype / HLA

**Sterility** The cells are free of mycoplasmas and other contaminants. PCR screening is performed.

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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