

Human Lung Tumor Cell lines

Part of the CLS cell bank

CLS Cell Lines Service



Name of cell line	Cell type	Organism, Ethnicity	Age / Gender	Tissue / Disease	Morphology	Growth properties	CLS order no.
2106LN ¹	Lung squamous cell carcinoma (SCC) cell line	Homo sapiens (Human) / Caucasian	51 / Male	Lung, metastatic site: lymph node	Mid-size and polygonal with membrane protrusions, prominent nucleoli and intercellular bridges	Monolayer, adherent	300166
2106T ¹	Lung squamous cell carcinoma (SCC) cell line	Homo sapiens (Human) / Caucasian	51 / Male	Lung, primary tumor	Mid-size and polygonal with membrane protrusions, prominent nucleoli and intercellular bridges	Adherent	300165
2427T ¹	Lung squamous cell carcinoma (SCC) cell line	Homo sapiens (Human) / Caucasian	64 / Female	Lung, primary tumor	Small round, show a high nucleus-to-cytoplasm ratio and grow in clusters	Adherent	300167
A-427 ²	Lung carcinoma cell line	Homo sapiens (Human) / Caucasian	52 / Male	Lung / carcinoma	Epithelial	Adherent	300111
A-549 ²	Lung carcinoma cell line	Homo sapiens (Human) / Caucasian	58 / Male	Lung / carcinoma	Epithelial	Adherent	300114
CaLu-1 ³	Lung epidermoid carcinoma cell line	Homo sapiens (Human) / Caucasian	47 / Male	Lung / carcinoma	Epithelial	Adherent	300141
CaLu-6 ³	Lung carcinoma cell line	Homo sapiens (Human) / Caucasian	61 / Female	Unknown, probably lung; Anaplastic carcinoma	Epithelial	Adherent	300135
CLS-54	Lung carcinoma cell line	Homo sapiens (Human) / Caucasian	65 / Male	Lung / carcinoma	Epithelial	Adherent	300227
DMS-79 ⁴	Lung carcinoma cell line	Homo sapiens (Human) / Caucasian	65 / Male	Lung / Small cell carcinoma	Round cells, cluster	Aggregates in suspension	300164
GCT ⁵	Lung carcinoma cell line	Homo sapiens (Human) / Caucasian	29 / Male	From metastatic site: lung / fibrous Histiocytoma	Epithelial	Adherent	300155
H-Meso-1 ⁶	Lung carcinoma cell line	Homo sapiens (Human) / Caucasian	65 / Male	Lung / Mesothelioma	Fibroblast	Adherent	300186
H-Meso-1A ⁶	Lung carcinoma cell line	Homo sapiens (Human) / Caucasian	65 / Male	Lung / Mesothelioma	Fibroblast	Adherent	300187
HEL-299 ⁷	Lung cell line	Homo sapiens (Human) / Caucasian	Embryo / Male	Lung / normal	Fibroblast	Adherent	300193
HROBML03 ⁸	Non-small cell Lung cancer (NSCLC) cell line	Homo sapiens (Human) / Caucasian	47 / Female	Lung / NSCLC	Epithelial	Adherent	300801

Name of cell line	Cell type	Organism, Ethnicity	Age / Gender	Tissue / Disease	Morphology	Growth properties	CLS order no.
LCLC-97TM1 ⁹	Lung Large cell carcinoma cell line	Homo sapiens (Human) / Caucasian	44 / Male	Lung / Large cell carcinoma	Epithelial	Adherent	300409
LXF-289 ¹⁰	Lung Adenocarcinoma cell line	Homo sapiens (Human) / Caucasian	62 / Male	Lung / Adenocarcinoma	Epithelial	Adherent	300269
MRC-5 ¹¹	Lung cell line	Homo sapiens (Human) / Caucasian	13 months / Male	Lung / Normal	Fibroblast	Adherent	300395
MSTO-211H ⁹	Lung carcinoma cell line	Homo sapiens (Human) / Caucasian	62 / Male	From metastatic site: lung / biphasic Mesothelioma	Fibroblast	Adherent	300450
NCI-H146 ¹²	Lung Small cell lung carcinoma cell line	Homo sapiens (Human) / Caucasian	59 / Male	Lung / Small cell carcinoma	Aggregates in suspension	Suspension	300182
NCI-H209 ¹³	Lung Small cell lung carcinoma cell line	Homo sapiens (Human) / Caucasian	-- / Male	Lung; from metastatic site: bone marrow	Aggregates in suspension	Suspension	300183
NCI-H69 ¹⁴	Lung Small cell carcinoma cell line	Homo sapiens (Human) / Caucasian	55 / Male	Lung / Small cell carcinoma	Floating aggregates	Suspension	300185
NCI-H82 ¹⁵	Lung carcinoma cell line	Homo sapiens (Human) / Caucasian	40 / Male	Lung (pleural effusion)	Aggregates in suspension	Suspension	300442
SCLC-21H ¹⁶	Lung Small cell carcinoma cell line	Homo sapiens (Human) / Caucasian	45 / Male	Lung (pleural effusion)	Floating aggregates	Suspension	300225
SCLC-22H ¹⁶	Lung Small cell carcinoma cell line	Homo sapiens (Human) / Caucasian	45 / Male	Lung (pericardial)	Floating aggregates	Suspension	300445
SK-LU-1 ¹⁷	Lung carcinoma cell line	Homo sapiens (Human) / Caucasian	60 / Female	Lung / Adenocarcinoma, grade III	Epithelial	Adherent	300335
SK-MES-1 ¹⁷	Lung carcinoma cell line	Homo sapiens (Human) / Caucasian	65 / Male	Lung (pleural effusion)	Epithelial	Adherent	300339
SV-80 ¹⁸	Lung cell line, SV-40 transformed	Homo sapiens (Human) / Caucasian	/ Male	Lung / Normal, SV-40 transformed	Fibroblast	Adherent	300345
WI-38 VA-13_2RA ¹⁹	Lung carcinoma cell line, SV-40 transformed	Homo sapiens (Human) / Caucasian	3 mo / Female	Lung / Normal, SV-40 transformed	Epithelial	Adherent	300421

Table 2: Human Lung cancer cell lines: Special Features

Name of cell line	Cell type	Cell Marker	Tumor antigens	Mutations	Secretion of products	Ref ID in Cellosaurus ²⁰	CLS order no.
2106LN ¹	Lung squamous cell carcinoma (SCC) cell line	CD9 (+/-), CD34 (-), CD44 (+), CD45 (-), CD54 (+), CD56 (-), CD117 (-/+), SYP (-), NSE (-), CHGA (-), CK5/6 (+), CK7 (-)			Cytokeratin 5/6	RRID:CVCL_M068	300166
2106T ¹	Lung squamous cell carcinoma (SCC) cell line	CD9 (-), CD34 (-), CD44 (+), CD45 (-), CD54 (+), CD56 (-), CD117 (-), SYP (-), NSE (-), CHGA (-), CK5/6 (+), CK7 (-)			Cytokeratin 5/6	RRID:CVCL_M069	300165
2427T ¹	Lung squamous cell carcinoma (SCC) cell line	CD9 (+), CD34 (-), CD44 (-), CD45 (-), CD54 (-), CD56 (-), CD117 (-), SYP (-/+), NSE (-), CHGA (-), CK5/6 (-/+), CK7 (-)	CDA not expressed		Cytokeratin 5/6	RRID:CVCL_M070	300167
A-427 ²	Lung carcinoma cell line					RRID:CVCL_1055	300111
A-549 ²	Lung carcinoma cell line				Keratin	RRID:CVCL_0023	300114
CaLu-1 ³	Lung epidermoid carcinoma cell line					RRID:CVCL_0608	300141
CaLu-6 ³	Lung carcinoma cell line			KRAS codon 61, c.181C>A p.(Gln61Lys)		RRID:CVCL_0236	300135
CLS-54	Lung carcinoma cell line					RRID:CVCL_5728	300227
DMS-79 ⁴	Lung carcinoma cell line				ACTH; bombesin; calcitonin; corticotropin; beta endorphin; 17 beta estradiol; lipotropin; oxytocin - neurophysin (OT-NP); parathormone; somatostatin-like immunoreactivity (SRIF)	RRID:CVCL_1178	300164
GCT ⁵	Lung carcinoma cell line				CSA; erythroid enhancing activity (EEA); prostaglandin E; plasminogen activator	RRID:CVCL_1229	300155
H-Meso-1 ⁶	Lung carcinoma cell line					RRID:CVCL_5759	300186
H-Meso-1A ⁶	Lung carcinoma cell line					RRID:CVCL_5760	300187
HEL-299 ⁷	Lung cell line					RRID:CVCL_2480	300193

Name of cell line	Cell type	Cell Marker	Tumor antigens	Mutations	Secretion of products	Ref ID in Cellosaurus ²⁰	CLS order no.
HROBML03 ⁸	Non-small cell Lung cancer (NSCLC) cell line	ICAM-1 expression upon treatment with CBD (cannabidiol)				RRID:CVCL_1D09	300801
LCLC-97TM1 ⁹	Lung Large cell carcinoma cell line			<i>CDKN2A</i> , c.1_471del471, p.M1_*157del; <i>KRAS</i> , c.35G>T, p.G12V; <i>TP53</i> , c.102delC, p.L35fs*9		RRID:CVCL_1376	300409
LXF-289 ¹⁰	Lung Adenocarcinoma cell line	Cytokeratine 8, 18, (+); Desmoplakin (+); Vimentin (+)				RRID:CVCL_1394	300269
MRC-5 ¹¹	Lung cell line					RRID:CVCL_0440	300395
MSTO-211H ⁹	Lung carcinoma cell line	High affinity binding sites for EGF; Neuron specific enolase (NSE); alpha and beta subunits of human chorionic gonadotropin (HCG); L-DOPA decarboxylase (DDC)				RRID:CVCL_1430	300450
NCI-H146 ¹²	Lung Small cell lung carcinoma cell line	Insulin-like growth factor II receptor (IGF II)				RRID:CVCL_1473	300182
NCI-H209 ¹³	Lung Small cell lung carcinoma cell line			pRB (RB1, abnormal)	p53 mRNA, normal amounts	RRID:CVCL_1525	300183
NCI-H69 ¹⁴	Lung Small cell carcinoma cell line	Insulin-like growth factor II receptor (IGF II)				RRID:CVCL_1579	300185
NCI-H82 ¹⁵	Lung carcinoma cell line	Insulin-like growth factor II receptor (IGF II); atrial natriuretic peptide (ANP)				RRID:CVCL_1591	300442
SCLC-21H ¹⁶	Lung Small cell carcinoma cell line		-myc amplification present, c-myc expression high			RRID:CVCL_0024	300225
SCLC-22H ¹⁶	Lung Small cell carcinoma cell line					RRID:CVCL_2186	300445
SK-LU-1 ¹⁷	Lung carcinoma cell line	Blood Type O; Rh+; HLA Aw24, Aw32, B27, Bw41; P53 (+)				RRID:CVCL_0629	300335
SK-MES-1 ¹⁷	Lung carcinoma cell line	Blood Type O; Rh+; HLA A3, Aw30, B7, B27; P53 (-)				RRID:CVCL_0630	300339
SV-80 ¹⁸	Lung cell line, SV-40 transformed					RRID:CVCL_0541	300345
WI-38 VA-13_2RA ¹⁹	Lung carcinoma cell line, SV-40 transformed					RRID:CVCL_2759	300421

Information on cell culture conditions, authentication data and others can be found on the website: www.clsgmbh.de

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20. <http://web.expasy.org/cellosaurus/> - the cellosaurus represents a detailed data collection bank of a plethora of cell line relevant data from various cell banks.

All of the products listed in Table 1/Table 2 are intended for research use only, not for use in human, therapeutic or diagnostic applications.

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