

## Panel of Rat 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.
AH-130 <sup>1</sup>	Rat Liver Hepatoma cell line	Rattus norvegicus (rat) Sprague-Dawley		Ascites hepatoma	Round suspension cells, triangular adherent	Suspension / Adherent	500412
AH-130 FN <sup>2</sup>	Rat Liver Hepatoma cell line	Rattus norvegicus (rat) Sprague-Dawley		Ascites hepatoma	Round cells in suspension, epithelial in the adherent state	Suspension, few adherent	500451
AR42J <sup>3</sup>	Rat Pancreas Pancreatic tumor cell line	Rattus norvegicus (rat) Wistar		Pancreas tumor, exocrine	Epithelial	Cluster, appear as hollow spheroid colonies. can pile up and attach loosely	500478
AS-30D <sup>4</sup>	Rat Liver Hepatoma cell line	Rattus norvegicus (rat) Sprague-Dawley	16 month / Female	Hepatoma	Round cells, loosely adherent, floating	Suspension / Monolayer	500116
AT-1 <sup>5</sup>	Rat Prostate Adenocarcinoma cell line	Rattus norvegicus (rat) Copenhagen rats		Rat dorsal prostatic adenocarcinoma	Epithelial	Monolayer, adherent	500121
BRL-3A <sup>6</sup>	Rat Liver cell line	Rattus norvegicus (rat) Buffalo		Liver	Epithelial	Monolayer, adherent	500129
C6 <sup>7</sup>	Rat Brain Glioma cells	Rattus norvegicus (rat)		Brain (glioma)	Fibroblast	Monolayer, adherent	500142
CC531 <sup>8</sup>	Rat Colon Adenocarcinoma cell line	Rattus norvegicus (rat) WAG-Rij-rats		Colon carcinoma		Monolayer, adherent	500387
CLS-ACI-1 <sup>9</sup>	Rat Breast Adenocarcinoma cell line	Rattus norvegicus (rat) ACI	3 months / Female	Breast	Epitheloid and lymphoblastoid-like	Suspension / Monolayer	500459
DSL6A-C1 <sup>10</sup>	Rat Pancreas Carcinoma, ductal cell line	Rattus norvegicus (rat) Lewis	Male	Pancreas carcinoma	Epithelial	Monolayer, adherent	500166
DSL-6B-C2 <sup>10</sup>	Rat Pancreas Carcinoma, ductal cell line	Rattus norvegicus (rat) Lewis	Male	Pancreas carcinoma	Epithelial	Monolayer, adherent	500167
FRTL <sup>11</sup>	Rat Thyroidea cell line	Rattus norvegicus (rat) Fischer	Weeks	Thyroid, normal		Monolayer, adherent	500202

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FRTL-5 <sup>12</sup>	Rat Thyroidea cell line	Rattus norvegicus (rat) Fischer 344		Thyroid, normal	Epithelial	Adherent, colonies	500407
HB-CLS-3	Rat Urinary bladder Carcinoma cell line	Rattus norvegicus (rat) ACI	1 year / Male	Bladder, urinary, Squamous cell carcinoma	Epithelial	Adherent, colonies	500460
LC-540 <sup>13</sup>	Rat Testis Leydig cell tumor cell line	Rattus norvegicus (rat) Fischer	Adult / Male	Leydig cell tumor; testis	Epithelial	Adherent, colonies	500262
MH-3924A <sup>14</sup>	Rat Liver Hepatoma cell line	Rattus norvegicus (rat) ACI	16 months / Male	Liver, hepatoma	Epitheloid	Monolayer, adherent	500286
MH-TC-5123 <sup>15</sup>	Rat Liver Hepatoma cell line	Rattus norvegicus (rat) Buffalo	10 months	Liver, hepatoma	Epitheloid	Monolayer, adherent	500287
Novikoff Hepatoma <sup>16</sup>	Rat Liver Hepatoma cell line	Rattus norvegicus (rat) Sprague-Dawley		Liver, hepatoma	Epitheloid	Suspension, few cells adherent	500373
NRK-49F <sup>17</sup>	Rat Kidney cell line	Rattus norvegicus (rat) Osborne-Mendel (OM)		Kidney, normal	Fibroblast-like	Monolayer, adherent	500427
O-342 <sup>18</sup>	Rat Ovary Adenocarcinoma cell line	Rattus norvegicus (rat)	Female	Ovary adenocarcinoma	Epithelial	Monolayer, adherent	500305
OS-1 CLS	Rat Bone Osteosarcoma cell line	Rattus norvegicus (rat) Sprague-Dawley		Bone osteosarcoma		Monolayer, adherent	500369
PC-12 <sup>19</sup>	Rat Adrenal gland Pheochromocytoma cell line	Rattus norvegicus (rat)	Male	Adrenal gland, Pheochromocytoma	Polygonal	Small clusters in suspension, poorly adherent; patches on collagen	500311
RBL-1 <sup>20</sup>	Rat Hematopoiesis basophil leukemia cell line	Rattus norvegicus (rat) Wistar		Blood (chemically induced leukemia) Lymphoblast, basophil	Round cells	Suspension / Monolayer	500389
RTE-2 <sup>21</sup>	Rat Tongue keratinocyte cell line	Rattus norvegicus (rat)		Tongue	Epithelial, keratinocyte	Monolayer, adherent	500327
RY Yoshida Sarcoma <sup>22</sup>	Rat Fibroblast sarcoma cell line	Rattus norvegicus (rat) Sprague-Dawley		Ascites Sarcoma		Suspension / Monolayer	500415
ZH Zajdela Hepatoma <sup>23</sup>	Rat Liver hepatoma cell line	Rattus norvegicus (rat) Sprague-Dawley	11 months	Liver, hepatoma	Epithelial	Monolayer, adherent	500306

**Table 2: Rat cell lines: Special Features**

Name of cell line	Cell type	Karyotype	Virus Resistance	Virus Susceptibility	Secretion of products	Ref ID in Cellosaurus <sup>24</sup>	CLS order no.
AH-130 <sup>1</sup>	Rat Liver Hepatoma cell line			Very sensitive to human adenoviruses	Amylase and other exocrine enzymes Receptors Expressed: Insulin; glucocorticoid	RRID:CVLL_4367	500412
AH-130 FN <sup>2</sup>	Rat Liver Hepatoma cell line					RRID:CVLL_5683	500451
AR42J <sup>3</sup>	Rat Pancreas Pancreatic tumor cell line				Amylase and other exocrine enzymes Receptors Expressed: Insulin; glucocorticoid	RRID:CVLL_0143	500478
AS-30D <sup>4</sup>	Rat Liver Hepatoma cell line	Hypodiploid rat karyotype with 12% tetraploidy; 38 (35-41).				RRID:CVLL_1949	500116
AT-1 <sup>5</sup>	Rat Prostate Adenocarcinoma cell line					RRID:CVLL_6271	500121
BRL-3A <sup>6</sup>	Rat Liver cell line				Multiplication stimulating activity (MSA).	RRID:CVLL_0606	500129
C6 <sup>7</sup>	Rat Brain Glioma cells		Poliovirus 3		vesicular stomatitis (Indiana); vaccinia; herpes simplex Receptors Expressed: neg Receptors Expressed: Glucocorticoid	RRID:CVLL_0194	500142
CC531 <sup>8</sup>	Rat Colon Adenocarcinoma cell line					RRID:CVLL_0206	500387
CLS-ACI-1 <sup>9</sup>	Rat Breast Adenocarcinoma cell line	Near triploid. 88.4% showing 51-69 chromosomes, 5% 38-50 chromosomes, 6.6% near tetraploid or higher ploidy level.			Overexpression of <i>Mycn</i> gene.	RRID:CVLL_5729	500459

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DSL-6A-C1 <sup>10</sup>	Rat Pancreas Carcinoma, ductal cell line				Expression: ductal marker cystic fibrosis transmembrane regulator (CFTR) , Amylase, but production of exocrine enzymes ceased after 1 to 2 weeks in culture Lost structural and immunohistochemical acinar cell markers	RRID:CVLL_4166	500166
DSL-6B-C2 <sup>10</sup>	Rat Pancreas Carcinoma, ductal cell line				Mucin Amylase, but production of exocrine enzymes ceased after 1 to 2 weeks in culture Lost structural and immunohistochemical acinar cell markers	RRID:CVLL_W197	500167
FRTL <sup>11</sup>	Rat Thyroidea cell line	Diploid			Thyroglobulin accumulate iodide intracellularly	RRID:CVLL_5753	500202
FRTL-5 <sup>12</sup>	Rat Thyroidea cell line				Thyroglobulin Receptors Expressed: Thyroid stimulating hormone (TSH) IFN- $\gamma$ induced expression of HLA-DR	RRID:CVLL_0265	500407
HB-CLS-3	Rat Urinary bladder Carcinoma cell line					RRID:CVLL_5761	500460
LC-540 <sup>13</sup>	Rat Testis Leydig cell tumor cell line				Steroid hormone; estrogen (estradiol and others); androgen (testosterone and others) Reverse Transcriptase: pos	RRID:CVLL_3536	500262
MH-3924A <sup>14</sup>	Rat Liver Hepatoma cell line					RRID:CVLL_5799	500286
MH-TC-5123 <sup>15</sup>	Rat Liver Hepatoma cell line					RRID:CVLL_5800	500287
Novikoff Hepatoma <sup>16</sup>	Rat Liver Hepatoma cell line					RRID:CVLL_1D01	500373

Name of cell line	Cell type	Karyotype	Virus Resistance	Virus Susceptibility	Secretion of products	Ref ID in Cellosaurus <sup>24</sup>	CLS order no.
NRK-49F <sup>17</sup>	Rat Kidney cell line				Receptors Expressed: Epidermal growth factor (EGF); multiplication stimulating activity (MSA)	RRID:CVLL_2144	500427
O-342 <sup>18</sup>	Rat Ovary Adenocarcinoma cell line					RRID:CVLL_5847	500305
OS-1 CLS	Rat Bone Osteosarcoma cell line					RRID:CVLL_5851	500369
PC-12 <sup>19</sup>	Rat Adrenal gland Pheochromocytoma cell line	40 chromosomes; 38 autosomes plus XY			Catecholamines; dopamine; norepinephrine Receptors Expressed: Nerve growth factor (NGF)	RRID:CVLL_S979	500311
RBL-1 <sup>20</sup>	Rat Hematopoiesis basophil leukemia cell line				Histamine Receptors Expressed: Fc of IgE	RRID:CVLL_0496	500389
RTE-2 <sup>21</sup>	Rat Tongue keratinocyte cell line					RRID:CVLL_5889	500327
RY Yoshida Sarcoma <sup>22</sup>	Rat Fibroblast sarcoma cell line					RRID:CVLL_1D05	500415
ZH Zajdela Hepatoma <sup>23</sup>	Rat Liver hepatoma cell line					RRID:CVLL_1D00	500306

Information on cell culture conditions, authentication data and others can be found on the website: [www.clsgmbh.de](http://www.clsgmbh.de)

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24. <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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