

Human Tumor Cell lines Reproductive System

Part of the CLS cell bank

CLS Cell Lines Service



Table 1: Human Reproductive System cancer cell lines: Origin and General Characteristics

Name of cell line	Cell type	Organism, Ethnicity	Age / Gender	Tissue / Primary tumor	Morphology	Growth properties	CLS order no.
AN3 Ca ¹	Endometrium Adenocarcinoma cell line	Homo sapiens (Human) / Caucasian	55 / Female	Uterus / Endometrium, adenocarcinoma	Epithelial	Monolayer, adherent	300119
BEWO ²	Choriocarcinoma cell line	Homo sapiens (Human) / Caucasian	Female	Placenta / choriocarcinoma	Epithelial	Monolayer, adherent	300123
CasKi ³	Cervix carcinoma cell line	Homo sapiens (Human) / Caucasian	40 / Female	Cervix / epidermoid carcinoma	Epithelial	Monolayer, adherent	300145
CERV-186	Cervix carcinoma cell line	Homo sapiens (Human) / Caucasian	42 / Female	Cervix / squamous carcinoma	Epithelial	Monolayer, adherent	300290
CERV-196	Cervix carcinoma cell line	Homo sapiens (Human) / Caucasian	49 / Female	Cervix / carcinoma	Epithelial	Monolayer, adherent	300291
CERV-215	Cervix carcinoma cell line	Homo sapiens (Human) / Caucasian	39 / Female	Cervix / squamous carcinoma	Epithelial	Monolayer, adherent	300292
HeLa ⁵	Cervix carcinoma cell line	Homo sapiens (Human) / Caucasian	31 / Female	Cervix / adenocarcinoma	Epithelial	Monolayer, adherent	300194
HeLa S3 ⁸	Cervix carcinoma cell line	Homo sapiens (Human) / Caucasian	31 / Female	Cervix / adenocarcinoma	Epithelial	Monolayer, adherent	300384
JAR ⁶	Choriocarcinoma cell line	Homo sapiens (Human) / Caucasian	24 / Female	Placenta / Choriocarcinoma	Epithelial	Monolayer, adherent	300221
JEG-3 ⁷	Choriocarcinoma cell line	Homo sapiens (Human) / Caucasian	/ Female	Placenta / Choriocarcinoma	Epithelial	Monolayer, adherent	300222
KB ⁸	Cervix carcinoma cell line	Homo sapiens (Human) / Caucasian	/ Female	Cervix / epidermoid carcinoma	Epithelial	Monolayer, adherent	300446
NIH-OVCAR-3 ⁹	Ovary adenocarcinoma cell line	Homo sapiens (Human) / Caucasian	60 / Female	Ovary (Ascites), adenocarcinoma	Epithelial	Monolayer, adherent	300307
OAW-42 ¹⁰	Ovary carcinoma cell line	Homo sapiens (Human) / Caucasian	/ Female	Ovary/ adenocarcinoma	Epithelial	Monolayer, adherent	300304
PA-1 ¹¹	Ovary carcinoma cell line	Homo sapiens (Human) / Caucasian	12 / Female	Teratocarcinoma; ovary; metastatic site: ascites	Epithelial	Monolayer, adherent	300402

Table 2: Human Reproductive System cell lines: Special Features

Name of cell line	Cell type	Cell Marker	Karyotype	Oncogene	Secretion of Products	Ref ID in Cellosaurus ¹²	CLS order no.
AN3 Ca ¹	Endometrium Adenocarcinoma cell line	PGM3, 1-2; PGM1, 1; ES-D, 1; AK-1, 1-2; GLO-1, 2; G6PD, B				RRID:CVLL_0028	300119
BEWO ²	Choriocarcinoma cell line	G6PD, B			Progesterone; human chorionic gonadotropin (hCG); human chorionic somatomammotropin (placental lactogen); estrogen; estrone; estriol; estradiol; keratin.	RRID:CVCL_0044	300123
CasKi ³	Cervix carcinoma cell line	G6PD, B			Beta subunit of hCG; tumor associated antigen	RRID:CVCL_1100	300145
CERV-186	Cervix carcinoma cell line				Cytokeratine 8, 18, Vimentin, Desmoplakin	RRID:CVCL_5720	300290
CERV-196	Cervix carcinoma cell line				Cytokeratine 8, 18, Vimentin	RRID:CVCL_5721	300291
CERV-215	Cervix carcinoma cell line				Cytokeratine 8, 18, Vimentin	RRID:CVCL_5722	300292
HeLa ⁴	Cervix carcinoma cell line	G6PD, A			Keratin; Lysophosphatidylcholine (lyso-PC) induces AP-1 activity and c-jun N-terminal kinase activity (JNK1) by a protein kinase C-independent pathway, Reverse Transkriptase neg	RRID:CVCL_0030	300194

Name of cell line	Cell type	Cell Marker	Karyotype	Oncogene	Secretion of Products	Ref ID in Cellosaurus ¹²	CLS order no.
HeLa S3 ⁵	Cervix carcinoma cell line	G6PD, A			Reverse Transkriptase neg, Keratin,	RRID:CVCL_0058	300384
JAR ⁶	Choriocarcinoma cell line	G6PD, B; PGM1, 1-2; PGM3, 1-2; ES-D, 2; AK-1, 1; GLO-1, 1; Phenotype Frequency Product: 0.0002			Estrogen; progesterone; human chorionic gonadotropin (hCG); human chorionic somatomammotropin (placental lactogen); hCG production averages 22.5 ng/ml after reculturing	RRID:CVCL_0360	300221
JEG-3 ⁷	Choriocarcinoma cell line	PGM3, 1-2; PGM1, 1; ES-D, 1; AK-1, 1; GLO-1, 1-2; G6PD, type B			Human chorionic gonadotrophin (hCG), human chorionic somatomammotrophin (placental lactogen); progesterone.	RRID:CVCL_0363	300222
KB ⁸	Cervix carcinoma cell line	G6PD, type A	2n = 46		Keratin, HeLa marker	RRID:CVCL_0372	300446
NIH-OVCA3 ⁹	Ovary adenocarcinoma cell line	G6PD, B; PGM1, 1; PGM3, 1; ES-D, 1; AK-1, 1; GLO-1, 1;			Androgen; estrogen; progesterone	RRID:CVCL_0465	300307
OAW-42 ¹⁰	Ovary carcinoma cell line		Hypotetraploid			RRID:CVCL_1615	300304
PA-1 ¹¹	Ovary carcinoma cell line	HLA A28, B12, G6PD, B		N-ras (activated)		RRID:CVCL_0479	300402

Information on cell culture conditions, authentication data and more are described in detail on the website: www.clsgmbh.de

References:

1. Dawe CJ et al. Growth in continuous culture, and in hamsters, of cell from a neoplasm associated with acanthosis nigricans. J Natl Cancer Inst 33: 441-56, 1964.
2. Pattillo RA and Gey GO. The establishment of a cell line of human hormone-synthesizing trophoblastic cells in vitro. Cancer Res. 28: 1231, 1968
3. Pattillo RA et al. Tumor antigen and human chorionic gonadotropin in CaSki cells: a new epidermoid cervical cancer cell line. Science 196: 1456-1458, 1977.
4. Gey GO, Coffman WD and Kubicek MT. Tissue culture studies of the proliferative capacity of cervical carcinoma and normal epithelium. Cancer Res. 12: 264-265, 1952.
5. Puck TT, Marcus PI. Proc. Natl. Acad. Sci. USA 41: 432-437, 1955.
6. References: Pattillo RA et al. The JAR cell line - continuous human multihormone production and controls. In Vitro 6: 398-399, 1971.
7. Kohler PO and Bridson WE. Isolation of hormone-producing clonal lines of human choriocarcinoma. J Clin Endocrinol Metab 32: 683-7, 1971.
8. Eagle H. Propagation in a fluid medium of a human epidermoid carcinoma, strain KB. Proc Soc Exp Biol Med 89: 362-4, 1955.
9. Hamilton TC et al. Characterization of a Human Ovarian Carcinoma cell line (NIH:OVCA-3) with Androgen and Estrogen Receptors. Cancer Res 43: 5379-89, 1983.
10. Wilson AP. Characterization of a cell line derived from the ascites of a patient with papillary serous cystadenocarcinoma of the ovary. J Nat Cancer Inst 72: 513-21, 1984.
11. Giovanella BC et al. Heterotransplantation of human malignant tumors in "nude" thymusless mice. II. Malignant tumors induced by injection of cell cultures derived from human solid tumors. J Natl Cancer Inst 52: 921-30, 1974.
12. <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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