

# Human Urinary bladder 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.
5637 <sup>1</sup>	Human Urinary bladder carcinoma cell line	Homo sapiens (Human) / Caucasian	68 years / Male	Bladder (urinary), Carcinoma	Epithelial	Monolayer, Adherent	300105
CLS-439	Human Urinary bladder Epithelial cell line	Homo sapiens (Human) / Caucasian	61 years / Male	Bladder (urinary)	Epithelial	Monolayer, Adherent	300150
ECV-304 <sup>2</sup>	Human Urinary bladder Carcinoma cell line	Homo sapiens (Human) / Caucasian	Female	Bladder (urinary), Carcinoma	Epithelial	Monolayer, Adherent	300452
HB-CLS-1	Human Urinary bladder Carcinoma cell line	Homo sapiens (Human) / Caucasian	62 years / Male	Urinary bladder, carcinoma, GIII;	Epithelial	Monolayer, Adherent	300190
HB-CLS-2	Human Urinary bladder Carcinoma cell line	Homo sapiens (Human) / Caucasian	50 years / Male	Urinary bladder carcinoma, GIII.	Epithelial	Monolayer, Adherent	300191
RT-112 <sup>3</sup>	Human Urinary bladder carcinoma cell line	Homo sapiens (Human) / Caucasian	Female	Bladder (urinary), Carcinoma	Epithelial	Monolayer, Adherent	300324
RT-112-D21 <sup>4</sup>	Human Urinary bladder carcinoma cell line	Homo sapiens (Human) / Caucasian	Female	Bladder (urinary), Carcinoma	Epithelial	Monolayer, Adherent	300325
RT-4 <sup>5</sup>	Human Urinary bladder papilloma cell line	Homo sapiens (Human) / Caucasian	63 years / Male	Bladder, urinary. Transitional cell papilloma.	Epithelial	Monolayer, Adherent	300326
T24 <sup>6</sup>	Human Urinary bladder carcinoma cell line	Homo sapiens (Human) / Caucasian	81 years / Female	Bladder (urinary), Transitional cell carcinoma	Epithelial	Monolayer, Adherent	300352

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

**Table 2: Human Urinary bladder tumor cell lines : Special Features**

Name of cell line	Cell type	Isoenzymes	Tumor antigens	Karyotype	Secretion of Products	Ref ID in Cellosaurus <sup>7</sup>	CLS order no.
5637 <sup>1</sup>	Human Urinary bladder carcinoma cell line	Me-2, 1; PGM3, 2; PGM1, 1; ES-D, 1; AK-1, 1; GLO-1, 1-2; G6PD, B.		Phenotype Frequency Product: 0.0056	IL-1, IL-6, G-CFS, GM-CSF, SCF	RRID:CVLL_0126	300105
CLS-439	Human Urinary bladder Epithelial cell line					RRID:CVCL_5982	300150
ECV-304 <sup>2</sup>	Human Urinary bladder Carcinoma cell line					RRID:CVCL_2029	300452
HB-CLS-1	Human Urinary bladder Carcinoma cell line				p53 positive	RRID:CVCL_6213	300190
HB-CLS-2	Human Urinary bladder Carcinoma cell line					RRID:CVCL_6214	300191
RT-112 <sup>3</sup>	Human Urinary bladder carcinoma cell line			DNA index:2,1	p53 positive; Cytokeratine (4),5,(6), 7, 8, 13, 17, 18, 19, Desmoplakin.	RRID:CVCL_1670	300324
RT-112-D21 <sup>4</sup>	Human Urinary bladder carcinoma cell line			DNA index:2,1	Cytokeratine (4),5,(6), 7, 8, 13, 17, 18, 19, Desmoplakin	RRID:CVCL_6215	300325
RT-4 <sup>5</sup>	Human Urinary bladder papilloma cell line	Me-2, 1; PGM1, 1-2; PGM3, 1-2; ES-D, 1-2; AK-1, 1; GLO-1, 1-2; G6PD, B; Phenotype Frequency Product: 0.0050		(P174) hyperdiploid and hypotetraploid to hypertetraploid with abnormalities including dicentrics, breaks, translocations and minutes	p53 positive Antigen Expression : HLA A25(10), A3, B12, Cw3; Blood Type O	RRID:CVCL_0026	300326
T24 <sup>6</sup>	Human Urinary bladder carcinoma cell line	Me-2, 1-2; PGM3, 1; PGM1, 1; ES-D, 1; AK-1, 1; GLO-1, 1; G6PD, B; Phenotype Frequency Product: 0.0216	H-ras+	hypodiploidy to hypopentaploidy; stemline 86; 2 to 4 telocentrics; 3 to 4 minutes, hypotetraploid to hypertetraploid with abnormalities including dicentrics, breaks, pulverization, minutes and telocentric markers	Tumor specific antigen Antigen Expression: HLA A1, A3, B18, Bw35, Cw4, DRw2, Dw4	RRID:CVCL_0554	300352

## References:

1. Fogh J et al. One hundred and twenty-seven cultured human tumor cell lines producing tumors in mice. *J Natl Cancer Inst* 59: 221-6, 1977
2. Takahashi K et al. Spontaneous transformation and immortalization of human endothelial cells. *In Vitro Cell. Dev. Biol.* 26: 265-274, 1990.
3. Benham F et al. Alkaline phosphatase activity in human bladder tumor cell lines. *J Histochem Cytochem* 25: 266-74, 1977.
4. Seemann O et al. Establishment and characterization of a multidrug-resistant human bladder carcinoma cell line. *Urol Res* 22: 353-60, 1995.
5. Rigby CC et al. A human tissue culture cell line from a transitional cell tumour of the urinary bladder: growth, chromosome pattern and ultrastructure. *Br J Cancer* 24: 746-54, 1970.
6. Bubenik J et al. Cellular and humoral immune responses to human urinary bladder carcinomas. *Int J Cancer* 5: 310-9, 1970.
7. <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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Please contact service (a) [clsgmbh.de](mailto:cls@clsgmbh.de) if you have further questions or concerns.