

# Human Melanoma Cell lines

Part of the CLS cell bank

CLS Cell Lines Service



**Table 1: Human Melanoma 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.
A-375 <sup>1</sup>	Melanoma cell line	Homo sapiens (Human) / Caucasian	54 / Female	Skin / melanoma	Epithelial	Monolayer, adherent	300110
A-431 <sup>1</sup>	Melanoma cell line	Homo sapiens (Human) / Caucasian	85 / Female	Skin / carcinoma	Epithelial, flat polygonal	Monolayer, adherent	300112
HS-695T <sup>2</sup>	Carcinoma cell line	Homo sapiens (Human) / Caucasian	26 / Male	Skin / carcinoma (from metastatic site: lymph node)	Epithelial	Monolayer, adherent	300211
HS1-CLS	Skin sarcoma cell line	Homo sapiens (Human) / Caucasian	/ Male	Skin / sarcoma	Epithelial	Monolayer, adherent	300212
IGR-1 <sup>3</sup>	Melanoma cell line	Homo sapiens (Human) / Caucasian	/ Male	Skin / melanoma	Epithelial	Monolayer, adherent	300219
MEL-CLS-1	Melanoma cell line	Homo sapiens (Human) / Caucasian	/ Female	Skin / melanoma	Epithelial	Monolayer, adherent	300175
MEL-CLS-2	Melanoma cell line	Homo sapiens (Human) / Caucasian	/ Male	Skin / melanoma	Epithelial	Monolayer, adherent	300283
MEL-CLS-3	Melanoma cell line	Homo sapiens (Human) / Caucasian	/ Male	Skin / melanoma	Epithelial	Monolayer, adherent	300293
MEL-CLS-4	Melanoma cell line	Homo sapiens (Human) / Caucasian	/ Male	Skin / melanoma	Epithelial	Monolayer, adherent	300128
MEWO <sup>4</sup>	Melanoma cell line	Homo sapiens (Human) / Caucasian	/ Male	Skin / melanoma	Epithelial	Monolayer, adherent	300285
MML-1 <sup>5</sup>	Melanoma cell line	Homo sapiens (Human) / Caucasian	/ Female	Skin / melanoma	Epithelial	Monolayer, adherent	300288
NIS-G	Melanoma cell line	Homo sapiens (Human) / Caucasian	/ Female	Skin / melanoma	Epithelial	Monolayer, adherent	300303
WS1-CLS <sup>13</sup>	Skin sarcoma cell line	Homo sapiens (Human) / Caucasian	36 / Male	Skin / sarcoma	Epithelial	Monolayer, adherent	300378

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 Melanoma cell lines: Special Features**

Name of cell line	Cell type	Cell Marker	Tumor antigens	Mutations	Secretion of Products	Ref ID in Cellosaurus <sup>14</sup>	CLS order no.
A-375 <sup>1</sup>	Melanoma cell line	PGM3, 1-2; PGM1, 1; ES-D, 1; AK-1, 1-2; GLO-1, 2; G6PD, B	p53 pos	BRAF V600Emut		RRID:CVLL_0132	300110
A-431 <sup>1</sup>	Melanoma cell line	G6PD, B; PGM1, 1; PGM3, 1; ES-D, 1; Me-2, 0; AK-1, 1; GLO-1, 2	p53 pos	BRAF-V600Ewt	EGF-binding sites, HBp17	RRID:CVCL_0037	300112
HS-695T <sup>2</sup>	Carcinoma cell line	G6PD, B; PGM1, 1; PGM3, 1; ES-D, 1; Me-2, 0; AK-1, 1; GLO-1, 1; Phenotype Frequency Product: 0.0427	p53 pos	BRAF V600Emut		RRID:CVCL_0851	300211
HS1-CLS	Skin sarcoma cell line			BRAF-V600Ewt		RRID:CVCL_5978	300212
IGR-1 <sup>3</sup>	Melanoma cell line			BRAF-V600Kmut BRAF-V600Ewt	Melanin	RRID:CVCL_1303	300219
MEL-CLS-1	Melanoma cell line		p53 pos	BRAF V600Emut		RRID:CVCL_5619	300175
MEL-CLS-2	Melanoma cell line		p53 pos	BRAF V600Emut		RRID:CVCL_6001	300283
MEL-CLS-3	Melanoma cell line		p53 pos	BRAF-V600Emut		RRID:CVCL_6002	300293
MEL-CLS-4	Melanoma cell line			BRAF-V600Emut		RRID:CVCL_6003	300128
MEWO <sup>4</sup>	Melanoma cell line		p53 pos	BRAF-V600Ewt	Melanin	RRID:CVCL_0445	300285
MML-1 <sup>5</sup>	Melanoma cell line		p53 pos	BRAF-V600Emut	Reverse Transkriptase neg	RRID:CVCL_6004	300288
NIS-G	Melanoma cell line			BRAF-V600Ewt		RRID:CVCL_6005	300303
WS1-CLS	Skin Sarcoma cell line			BRAF-V600Ewt		RRID:CVCL_6211	300378

## References:

1. Giard DJ et al. In vitro cultivation of human tumors: establishment of cell lines derived from a series of solid tumors. J Natl Cancer Inst 51: 1417-23, 1973.
2. Creasey AA et al. Biological properties of human melanoma cells in culture. In Vitro 15: 342-350, 1979.
3. Aubert C et al. [Differentiation and tumorigenicity of human malignant melanocytes. Comparative study of two "non pigmented" and pigmented lines from the same fibroblastoid cells]. CR Seances Acad Sci D 288: 919-22, 1979.
4. Grose C and Brunell PA. Varicella-Zoster Virus: Isolation and Propagation in Human Melanoma cells at 36 and 32°C. Infection and Immunity 19(1): 199-203, 1978.
5. Concepción de Inés, Björn Cochlovius, Stefanie Schmidt, Sergey Kipriyanov, Hans-Jürgen Rode, and Melvyn Little. Apoptosis of a Human Melanoma Cell Line Specifically Induced by Membrane-Bound Single-Chain Antibodies1. The Journal of Immunology, 163: 3948–3956, 1999.

<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.

The General Terms and Conditions of Supply of CLS Cell Lines Service GmbH are valid.

## Licensing information

The cell lines listed above are available for non-exclusive licensing for commercial purposes. Their application in order to provide commercial services or to manufacture commercial products is prohibited unless approved in writing by CLS.

Please contact Dagmar Lojewski at [licensing @ clsgmbh.de](mailto:licensing@clsgmbh.de) for further information.

Please contact service [@ clsgmbh.de](mailto:@clsgmbh.de) if you have further questions or concerns.

## **CLS Cell Lines Service GmbH**

Dr.Eckener-Str. 8  
69214 Eppelheim  
Germany  
Phone: +49(0)6221 700799

Managing Director  
Dr. Rosemarie Steubing  
HRB 714394, Amtsgericht Mannheim  
VAT-ID: DE283292917  
FAX: +49(0)6221 700717