Human Breast Tumor Cell lines

Part of the CLS cell bank

CLS Cell Lines Service



Table 1: Human Breast 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.
BT-20 ¹	Mammary carcinoma cell line	Homo sapiens (Human) / Caucasian	74 / Female	Breast / Invasive ductal Epithelial carcinoma		Monolayer, adherent	300130
BT-474 ²	Mammary carcinoma cell line	Homo sapiens (Human) / Caucasian	60 / Female	Breast / Invasive ductal carcinoma	compact, slowly growing multi- layered colonies	Adherent	300131
BT-549 ³	Mammary carcinoma cell line	Homo sapiens (Human) / Caucasian	72 / Female	Breast / Invasive ductal carcinoma	Epithelial	Monolayer, adherent	300132
COLO-824 ⁴	Mammary carcinoma cell line	Homo sapiens (Human) / Caucasian	52 / Female	Breast / Mammary gland	Epithelial	Monolayer / Suspension	300463
HBL-100 ⁵	Mammary carcinoma cell line	Homo sapiens (Human) / Caucasian	27 / Female	Breast / Mammary gland	t / Mammary gland Epithelial		300178
MA-CLS-2 ⁶	Mammary carcinoma cell line	Homo sapiens (Human) / Caucasian	47 / Female	Breast / Pleural effusion, pT1 NO GII	Epithelial	Monolayer, adherent	300271
MCF-7 ⁷	Breast adenocarcinoma cell line	Homo sapiens (Human) / Caucasian	69 / Female	Breast / Invasive ductal carcinoma	Epithelial	Monolayer, adherent	300273
MX-1 ⁸	Mammary carcinoma cell line	Homo sapiens (Human) / Caucasian	74 / Female	Breast / Mammary gland	Epithelial	Monolayer, adherent	300296
SK-Br-3 ⁹	Breast adenocarcinoma cell line	Homo sapiens (Human) / Caucasian	43 / Female	Breast / Invasive ductal carcinoma	Epithelial	Monolayer, adherent	300333
T-47D ¹⁰	Mammary carcinoma cell line	Homo sapiens (Human) / Caucasian	54 / Female	Breast / Invasive ductal carcinoma	sive ductal Epithelial		300353
ZR-75-1 ¹¹	Mammary carcinoma cell line	Homo sapiens (Human) / Caucasian	63 / Female	Breast / Mammary gland; metastatic site: ascites	Epithelial	Monolayer, adherent	300163

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Table 2: Human Breast cancer cell lines: Special Features

Name of cell line	Cell type	Cell Marker	Tumor antigens	Mutations	Secretion of Cytokines	Ref ID in Cellosaurus	CLS order no.
BT-20 ¹	Mammary carcinoma cell line	HLA A1, Bw16 (+/-)	wnt4 +; wnt7h +	TP53 mut		RRID:CVCL_0178	300130
BT-474 ²	Mammary carcinoma cell line	HER-2/NEU+; ER+; PR+;		TP53 mut		RRID:CVCL_0179	300131
BT-549 ³	Mammary carcinoma cell line			TP53 mut		RRID:CVCL_1092	300132
COLO-824 ⁴	Mammary carcinoma cell line		p53 neg			RRID:CVCL_1136	300463
HBL-100 ⁵	Mammary carcinoma cell line	HLA A1, A10, A11, B7, B8				RRID:CVCL_4362	300178
MA-CLS-2 ⁶	Mammary carcinoma cell line					RRID:CVCL_4571	300271
MCF-7 ⁷	Mammary carcinoma cell line	ER+; PR+;	wnt7h +; Tx- 4; p53 negative, pGP9.5 negative, CEA positive	TP53 wt	Insulin-like growth factor binding proteins (IGFBP) BP-2; BP-4; BP-5	RRID:CVCL_0031	300273
MX-1 ⁸	Mammary carcinoma cell line		p53 neg; Estrogen receptor neg.			RRID:CVCL_4774	300296
SK-Br-3 ⁹	Mammary carcinoma cell line	Blood Type A; Rh+; HLA A11, Bw22(+/-), B40, B18; HER- 2/NEU+;	p53 pos;	TP53 mut		RRID:CVCL_0033	300333
T-47D ¹⁰	Mammary carcinoma cell line	ER+; PR+;		TP53 mut		RRID:CVCL_0553	300353
ZR-75-1 ¹¹	Mammary carcinoma cell line					RRID:CVCL_0588	300163

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- 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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