

## Oncology: List of validated models

Tumor type	Cell line
<b>Cell line derived subcutaneous xenograft models in mouse (*+Orthotopic)</b>	
Acute Myeloid Leukemia (AML)	KG-1
	MV4-11
	Kasumi-3
Angiosarcoma	SVR
Brain	U87-MG*
	U251
Breast	MCF-7
	MDA-MB-231*
	HCC70
	T47D
	MDA-MB-468
Bladder	T24*
	5637
	TCCSUP
	UMC-1*
	UMC-14*
	KMBC-2
	RT-112 (orthotopic)
Burkitt's lymphoma	RAJI
Chronic Myeloid Leukemia (CML)	K562 (Disseminated)
	HCT116*
Colon	DLD1
	SW480
	HT29*
	COLO-205
	HCT116*
Epidermoid (Skin)	A431
Gastric	N-87
Head & Neck	CAL-27
	HEp-2
Lung	A549*
	H1975
	NCI-H460
	NCI-H441
	NCI-H23
	NCI-H727
	NCI-H1373
	NCI-H358
	NCI-H82
	PC-9*

Tumor type	Cell line
Liver	HepG2
	SNU-398
	JHH-7
Kidney	ACHN
Melanoma	A375
Multiple Myeloma	NCI-H929
Medulloblastoma	D283
Ovarian	SKOV-3
	PA-1
	OVCAR-3
	OVCAR-5
	OV-90
Osteosarcoma	SJSA-1
Pancreas	BX-PC3*
	MIA PaCa-2*
	AsPC-1
Prostate	LNCaP
	VCap
	22Rv1
	DU145
Pro-B cell line	Ba/F3
Retinoblastoma	Y79
	NCC-Rbc-51
<b>Patient derived subcutaneous xenograft models in mouse</b>	
Head & Neck	Patient-derived tumors
<b>Cell line derived syngeneic models in mouse (*+Orthotopic)</b>	
Breast	4T1*
	EMT6*
	E3*
Bladder	NBT-II* (Rat Model)
Colon	CT-26
	MC-38
Lung	LLC
Melanoma	B16F10
<b>Humanized mouse subcutaneous model</b>	
Prostate	PC-3

Tumor type	Cell line
<b>Adoptive T cell transfer &amp; PBMC engrafted models in mouse</b>	
Colon	MC-38 (hCCR2 KI mice)
	MC-38 (in B-h4-1BB mice)
	DLD1
	COLO-205
Lung	SHP-77
Liver	HepG2
Multiple Myeloma	NCI-H929
Ovarian	OVCAR-3
<b>3D Spheroid subcutaneous model in mouse</b>	
Melanoma	B16F10
<b>IVIS Bio-imaging</b>	
Bioluminescence	Biodistribution of cells/test item tagged with Luciferase
	Cell lines: 4T1-Luc, RT112-Luc, OVCAR3-Luc, NCI-H929-FLuc
Fluorescence	Biodistribution of labelled test item or cells (RFP/GFP/AF647)
	Probing growth of orthotopic tumor cells expressing mCherry protein (U251-mCherry)
<p>Biodistribution of mammalian cells or antibodies injected in mice can be assessed by <i>In vivo</i> imaging to assess disease development in animals. Test item/antibodies tagged with fluorescence or luminescence probes support the organ/tissue specificity as well as the kinetics in animals.</p>	

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