

Tumor cell line HLA typing

Cancer	Cell line	HLA - classI			HLA - classII				culture medium
		A	B	C	DRB1	DPB1	DQA1	DQB1	
Esophagus Ca.	KE3	0206/2402	15/53/ or 55	0401/1502					RPMI1640+10%FCS
Esophagus Ca.	KE4	2402/2601	51 or 53/55	0102/0302					RPMI1640+10%FCS
Esophagus Ca.	KE5	1101/	1501/5504	0303/0401					RPMI1640+20%FCS
Esophagus Ca.	KE6	2402/2603	1501/4006	0801/					RPMI1640+20%FCS
Esophagus Ca.	KE9T								DMEM+10%FCS
Esophagus Ca.	KE9LN								DMEM+10%FCS
Esophagus Ca.	TE-8	2402/2601	55/	0102/					RPMI1640+10%FCS
Esophagus Ca.	TE-9	33/	1503/	n.e.					RPMI1640+10%FCS
Esophagus Ca.	TE-10	2/2402	55/51 or 53	0102/0302					RPMI1640+10%FCS
Esophagus Ca.	TE-11	2402/2601	56/51 or 53	1401/					RPMI1640+10%FCS
Esophagus Ca.	YES-1	201/							DMEM+10%FCS
Esophagus Ca.	YES-2	2404/							DMEM+10%FCS
Esophagus Ca.	YES-3	2404/							DMEM+10%FCS
Esophagus Ca.	YES-4	2402/	3901/	0702/					DMEM+10%FCS
Esophagus Ca.	YES-5	0201/	1511/	0303/					DMEM+10%FCS
Esophagus Ca.	YES-6	2402/	1501/	0303/0401					DMEM+10%FCS
Esophagus Ca.	A431								DMEM+10%FCS
Head and Neck Ca.	Kuma-1	2603/3302	1501/44031	0303/1403					RPMI1640+10%FCS
Head and Neck Ca.	Kuma-3		4001/5401	0102/1502					RPMI1640+10%FCS
Liver Ca.	HAK-1B	0201/3302	44031/5401	0102/1403	1501/1302		0101/0102	0602/0604	RPMI1640+10%FCS
Liver Ca.	HAK-2	0201/1101	3801/	1203/	1302/1302		0102/0102	0604/0604	RPMI1640+10%FCS
Liver Ca.	HAK-3	0201/2402	5101/	1402/1502					RPMI1640+10%FCS
Liver Ca.	KYN-1	2402/24	5401/	0102/	0405/0405		0301/0301	0401/0401	RPMI1640+10%FCS
Liver Ca.	KYN-2	2402/	5201/	1202/	1602/0405		0102/0301	0502/0401	RPMI1640+10%FCS
Liver Ca.	KYN-3	1101/2402	5201/5401	0102/1202	1502/0405		0103/0301	0601/0401	RPMI1640+10%FCS
Liver Ca.	KIM-1	1101/2603	1501/6701	0303/0702	1602/0405		0102/0301	0502/0401	RPMI1640+10%FCS
Liver Ca.	KMC-1	2402/	4006/5201	0801/1202	1502/1201		0103/*	0601/*	RPMI1640+10%FCS
Liver Ca.	KMCH-1	1101/3101	5101/	1402/					RPMI1640+10%FCS
Liver Ca.	KMCH-2	2402/	5401/	0102/					RPMI1640+10%FCS
Liver Ca.	Hep-G2	0201/2402	35/5101	0401/1602	1302/1602		0102/0102	0604/0502	RPMI1640+10%FCS
			<b>3501/3507 ?</b>						RPMI1640+10%FCS
Liver Ca.	SK-HEP-1	0201/2402	44031/3504	0401/	1302/1602		0102/0102	0604/0502	RPMI1640+10%FCS
Liver Ca.	PLC/PRF/5	3302/	4201/5301	1701/0401					RPMI1640+10%FCS
Liver Ca.	M. Esaki	2402/2603	1501/5401	0102/0303					RPMI1640+10%FCS
Lung Ca. (squamous)	RERF-LC-AI	2402/	5201/	1202/					RPMI1640+10%FCS
Lung Ca. (squamous)	QG56	2601/	4601/	0102/					RPMI1640+10%FCS
Lung Ca. (squamous)	Sq-1	1101/2402	1501/5201	0401/1202					RPMI1640+10%FCS
Lung Ca. (squamous)	LC-1sq	11/24	44031/	1203/1603					RPMI1640+10%FCS



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Stomach Ca.	TGBC-11-TKB(nothing)							DMEM+5%FCS
Pancreas Ca.	Panc-1	0201/1101	3801/	1203/				RPMI1640+10%FCS
Pancreas Ca.	YPK-1	2402/	0702/ or (4601/)	0702/ or (0303/)				DMEM+10%FCS
Pancreas Ca.	YPK-2(nothing)	2402/	3901/0303	1202/				
Pancreas Ca.	YPK-3(nothing)	201/						
Pancreas Ca.	YPK-4(nothing)	2610/	6040/6140	Cw3/				
Pancreas Ca.	paca-2	2402/	3901/ or (4601/)	0702/ or (0303/)				DMEM+5%FCS
Pancreas Ca.	YMMK-1(nothing)							
Pancreas Ca.	MIA Paca2							DMEM+10%FCS
Pancreas Ca.	PK-8							RPMI1640+10%FCS
Breast Ca.	R-27	0201/	4402/	0501/				RPMI1640+10%FCS
Breast Ca.	CRL1500	1101/						RPMI1640+10%FCS
Breast Ca.	YMB-1-E	1101/						EMEM+10%FCS
Breast Ca.	MCF7	0201/						EMEM+10%FCS
Breast Ca.	OCUB-F	2402/2601						DMEM+10%FCS
Breast Ca.	OCUB-M	2402/2601						DMEM+10%FCS
Breast Ca.	T-47D	A2- A24-						RPMI1640+10%FCS
Breast Ca.	MDA-MB-231	A2+ A24-						DMEM+10%FCS
GB Ca.	KMG-A	2601/	4002/	0304/				RPMI1640+10%FCS
Colon Ca. (adeno.)	COLO 201	0101/0201	0702/0801	0701/0702				RPMI1640+10%FCS
Colon Ca. (adeno.)	COLO 205	0101/0201	0702/0801	0701/0702				RPMI1640+10%FCS
Colon Ca. (adeno.)	COLO 320	2402/	1402/	0802/	0102/	0401/	0101/ 0501/	RPMI1640+10%FCS
Colon Ca. (adeno.)	SW620	0201/2402	0702/1518	0702/0704				EMEM+10%FCS
Colon Ca. (adeno.)	SW480	A2+ A24+						RPMI1640+10%FCS
Colon Ca. (adeno.)	HCT116	0101/0201	4501/	0501/0701				EMEM+10%FCS
Colon Ca. (adeno.)	KM12LM	02/2402	0702/	0702/	0401/	1301/	03011/ 0302/	RPMI1640+10%FCS
Colon Ca.	WiDr							DMEM+10%FCS
Colon Ca.	LoVo							Ham's F12+20%FCS
Cervical Ca. (squam.)	OMC-1	A2- A24-						
Cervical Ca. (squam.)	OMC-4	0207/2402	4001/4601	0102/0304				Ham's F12+20%FCS
Cervical Ca. (squam.)	SKG-I	2402/	5201/	1202/				Ham's F12+20%FCS
Cervical Ca. (squam.)	SKG-II	2402/						Ham's F12+20%FCS
Cervical Ca. (squam.)	SKG-IIIa	2402/	0702/1518	0602,0702,0704				Ham's F12+20%FCS
Cervical Ca. (squam.)	SKG-IIIb	2402/						Ham's F12+20%FCS

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Cervical Ca. (squam.)	HCS	2402/	5201/	1202/					Ham's F12+20%FCS
Cervical Ca.	TC-S	2402/	5401/	0102/					EMEM+10%FCS
Cervical Ca.	RKN	3302/	44/51 or 53	1403/	08032/1302	0401/0501	0102/0103	0601/0604	
Clear cell carcinoma	KCC-1a	2402/ or 31	5101/	0304/					endometrial adeno with clear c
Tubular adenocarcin	KCC-1b	2402/							endometrial adeno with clear c
Ovarial Ca.	TOC-2	0207/2402	51 or 53/54	0102/	DR1/DR13		DQ5/DQ6		RPMI1640+10%FCS
					(04051/0406	(0201/0501)	(03011/0303	(0302/0401)	
Ovarial Ca.	HOT	A26/	B35/B60	Cw7/	DR9/DR12		DQ3/DQ7		RPMI1640+10%FCS
Ovarial Ca.	TYK-nu	0201/2603	15/35	0303/0702	1406/1501	0201/0501	0102/0503	0301/0602	
Ovarial Ca.	MCAS	0206/2402	46/40(61)	0102/0304	1202/1401	0301/0402	0104/0601	0301/05031	
Ovarial Ca.	KOC-2S	2402/	51/53	1402/	0410/0901	0301/0501	0302/0303	03032/0402	
Ovarial Ca.	KOC-3S	2402/2601	40(61)/52	0304/1202	0901/1502	0201/0901	0103/0302	03032/0601	
Ovarial Ca.	KOC-5C	2402/2603	15/52	0702/1202	1401/1502	0501/0901	0103/0104	05031/0601	
Ovarial Ca.	KOC-7C (OC90)	0201/3101	51/53	1402/1202	1401/1502	0501/0901	0103/0104	0601/0502	
Ovarial Ca.	RMUG-L	2402/2601	40(60)/52	1202/1502	1405/1502	0501/	0103/0104	05031/0601	
Ovarial Ca.	RMUG-S	0207/3302	46/15(70)	0102/0303	0901/1101	0402/0501	0302/0501	0301/03032	
Ovarial Ca.	RMG-I	2402/	40(61)/51 or 53	0304/					
Ovarial Ca.	RMG-II	2402/	40(61)/51 or 53	0304/					
Ovarial Ca.	RTSG	2402/2601	40(60)/51 or 53	1202/1502	1405/1502	0501/	0103/0104/	05031/0601	
Ovarial Ca.	SKOV3								Mc Coy's 5A+10%FCS
Ovarian carcinoma	PC3								
Ovary	OMC-3								
Bladder Ca.	HT1376	2402/	1501/	0303/					RPMI1640+10%FCS
Bladder Ca.	HT1197	0201/6802	1401=1402/4402	0501/0802					
Bladder Ca.	Tcc SUP	0201/0301?	0702/4402	0501/0702					
Bladder Ca.	UM-UC-3	0201/3302	0702/1402	0702/0802					
Bladder Ca.	EJ-1	0101/	1801/	0501/					
Ostosarcoma	KHOS flow	0211/	5201/	1202/					DMEM+10%FCS
Ostosarcoma	HuO-3N1	2402/	0702/	0702/0801					RPMI1640+10%FCS
Ostosarcoma	KHOS-240	0211/	5201/	1202/					DMEM+10%FCS
Ostosarcoma	MG-63A	0101/0201	0801/1501	0401/0701					DMEM+10%FCS
Ostosarcoma	U-2 OS	0201/3201	4402/	0501/0704					DMEM+10%FCS
Ostosarcoma	SaOS 2	0201/2402	1302/4402	0602/0704					DMEM+10%FCS
Ostosarcoma	HKOS		4601/	0102/					DMEM+10%FCS
Ostosarcoma	KOOS		4006/5101	0801/					DMEM+10%FCS
Ostosarcoma	YIOS		0702/1503	1203/					DMEM+10%FCS
Ostosarcoma	MG63	0101/	0801/	0701/					DMEM+10%FCS
Ostosarcoma	KHOS-321	0211/	5201/	1202/					DMEM+10%FCS



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		A	B	C	DRB1	DPB1	DQA1	
Astrocytoma	U251MG<KO.R589>	0201/						EMEM+10%FCS
Astrocytoma	U251MG<R596>							EMEM+10%FCS
Astrocytoma	Marcus	2402/0302						EMEM+10%FCS
Astrocytoma	Becher	6802/0301						EMEM+10%FCS
Astrocytoma	SF-126	0201/24						EMEM+10%FCS
Astrocytoma	SK-MG-1	2402/0302						MCDB104(serum free)
Astrocytoma	B2-17	0201/						DMEM+10%FCS
Medulloblastoma	ONS-76	2402/2603						RPMI1640+10%FCS
Gliosarcoma	KNS-89	0201/						DMEM+10%FCS
Gliosarcoma	GI-1	0206/2601						DMEM+10%FCS
Keratinocyte	011794MIY	0207/2402						
Keratinocyte	110893YOS	0207/2402						
Keratinocyte	110893SHI	2402/3302						
Keratinocyte	HFK-CK-012	0203/						
Fibroblast	VA13							RPMI1640+10%FCS
Fibroblast	COS7							RPMI1640+10%FCS
Normal Fibroblast	WI38							EMEM+10%FCS+Lglutamine
Fetal Lung	IMR-90							EMEM+10%FCS+NEAA
T-B hybridoma	T2	0201/	5101/	0102/				
Wilm's	G-401							McCoy's 5A+10%FCS+Lglutam
	OC72	2402/31012	3501/5901	0102/0401				
	NP-1	0101/0201						
	NP-2	0101/0201						
	NP-3	0101/0201						
	A172	0101/0301						