

Table S1. HLA typing results of HCCs and HSCs

Sample ID		HLA-A*	HLA-A*	HLA-B*	HLA-B*	HLA-DRB1*	HLA-DRB1*
HCC	HCC#1	A*02:AH	A*11:NMV	B*46:01	B*51:01	DRB1*03:01	DRB1*12:02
	HCC#2	A*01:01	A*03:01	B*51:01	B*52:01	DRB1*14:04	DRB1*15:02
	HCC#3	A*02:06	A*33:03	B*55:02	B*58:01	DRB1*03:01	DRB1*12:02
	HCC#4	A*02:01	A*11:01	B*51:01	B*51:01	DRB1*03:01	DRB1*14:03
HSC	HSC#1	A*02:07	A*33:03	B*46:01	B*58:01	DRB1*03:01	DRB1*09:01
	HSC#2	A*03:01	A*24:02	B*40:01	B*52:01	DRB1*14:04	DRB1*15:02
	HSC#3	A*01:01	A*03:01	B*51:01	B*57:01	DRB1*07:01	DRB1*15:02
	HSC#4	A*24:02	A*33:03	B*18:01	B*58:01	DRB1*03:01	DRB1*12:02
	HSC#5	A*11:01	A*11:01	B*35:01	B*56:03	DRB1*09:01	DRB1*09:01
	HSC#6	A*11:NMV	A*02:AH	B*46:01	B*51:01	DRB1*12:02	DRB1*07:01
	HSC#7	A*24:02	A*33:01	B*14:02	B*40:01	DRB1*01:02	DRB1*08:03
	HSC#8	A*02:06	A*02:03	B*55:02	B*58:02	DRB1*03:02	DRB1*14:04
	HSC#9	A*11:01	A*24:02	B*52:01	B*55:01	DRB1*04:01	DRB1*15:01
	HSC#10	A*24:07	A*24:07	B*15:02	B*40:01	DRB1*04:03	DRB1*14:04
	HSC#11	A*02:01	A*11:01	B*35:01	B*40:01	DRB1*04:03	DRB1*11:01
	HSC#12	A*11:01	A*33:03	B*35:03	B*15:02	DRB1*07:01	DRB1*13:02

Table S2. Primer sequences for relative genes

Gene	Forward primer	Reverse primer
<i>hGAPDH</i>	AGGGCTGCTTTTAACTCTGGT	CCCCTTGATTTTGGAGGGA
<i>hPDL1</i>	TGGCATTGCTGAACGCATT	TGCAGCCAGGTCTAATTGTTTT
<i>hPDL2</i>	ACCCTGGAATGCAACTTTGAC	AAGTGGCTCTTTCACGGTGTG
<i>hCD80</i>	GGGCACATACGAGTGTGTTGT	TCAGCTTTGACTGATAACGTCAC
<i>hCD86</i>	CTGCTCATCTATACACGGTTACC	GGAAACGTCGTACAGTTCTGTG
<i>hCD48</i>	AGCTGCAAGTGCTTGACCC	CAGACTCGCCAGGTATCACAC

<i>hCD155</i>	TGGAGGTGACGCATGTGTC	GTTTGGACTCCGAATAGCTGG
<i>hCECAM-1</i>	TGCTCTGATAGCAGTAGCCCT	TGCCGGTCTTCCCGAAATG
<i>hHVEM</i>	GTGCAGTCCAGGTTATCGTGT	CACTTGCTTAGGCCATTGAGG
<i>hGAL-9</i>	GGACGGACTTCAGATCACTGT	CCATCTTCAAACCGAGGGTTG
<i>hE-CADHERIN</i>	CGAGAGCTACACGTTACGG	GGGTGTCGAGGGAAAAATAGG
