

Dual modulation of cytotoxic and checkpoint receptors tunes the efficacy of adoptive Delta One T cell therapy against colorectal cancer

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Supplementary Information

Supplementary Table 1. Mismatch repair status and molecular profile of the patient-derived organoids used in this study.

Sample	MMR	Mutations
CRC1370	MMR-p (MSS)	<i>APC</i> NM_000038.6:c.3340C>T, NP_000029.2:p.Arg1114* <i>TP53</i> NM_000546.5:c.1024C>T, NP_000537.3:p.Arg342*
CRC1376	MMR-p (MSS)	<i>APC</i> NM_000038.6:c.4132C>T, NP_000029.2:p.Gln1378* <i>KRAS</i> NM_004985.5:c.35G>T, NP_004976.2:p.Gly12Val <i>PIK3CA</i> NM_006218.4:c.1633G>A, NP_006209.2:p.Glu545Lys
CRC1382	MMR-p (MSS)	<i>BRAF</i> NM_004333.6:c.1799T>A, NP_004324.2:p.Val600Glu <i>PIK3CA</i> NM_006218.4:c.1357G>A, NP_006209.2:p.Glu453Lys <i>SMAD4</i> NM_005359.6:c.1081C>T NP_005350.1:p.Arg361Cys <i>TP53</i> NM_000546.5:c.613T>C, NP_000537.3:p.Tyr205His
CRC1386	MMR-d (MSI)	<i>KRAS</i> NM_004985.5:c.180_181delinsAA, NP_004976.2:p.Gln61Lys <i>PIK3CA</i> NM_006218.4:c.1624G>A, NP_006209.2:p.Glu542Lys
CRC1391	MMR-d (MSI)	<i>APC</i> NM_000038.6:c.4348C>T, NP_000029.2:p.Arg1450* <i>KRAS</i> NM_004985.5:c.38G>A, NP_004976.2:p.Gly13Asp
CRC1403	MMR-p (MSS)	<i>TP53</i> NM_000546.5:c.844C>T, NP_000537.3:p.Arg282Trp
CRC1419	MMR-d (MSI)	<i>BRAF</i> NM_004333.6:c.1799T>A, NP_004324.2:p.Val600Glu <i>GNAS</i> NM_000516.6:c.602G>A, NP_000507.1:p.Arg201His <i>FBXW7</i> NM_001349798.2:c.1436G>A, NP_001336727.1:p.Arg479Gln

Supplementary Table 2. List of antibodies and dyes used for flow cytometry

Marker	Fluorochrome	Clone	Company	Reference
B7-H6	PE	875001	R&D Systems	FAB144P-100
CD107a	BV605	H4A3	Biolegend	328634
CD158 (KIR2D)	BUV395	HP-MA4	BD	567326
CD3	BUV805	SK7	BD	612894
CD3	BV510	OKT3	Biolegend	317332
CD45	PE-CF594	HI30	BD	562279
CD45	AF700	HI30	Biolegend	304023/4
CD45	PEDzzle	2D1	Biolegend	368529/30
CD69	RB744	FN50	BD	570501
CD69	BV605	FN50	Biolegend	310937/8
CD69	PERCPCy5.5	FN50	BioLegend	310925
CD94	PE	HP-3D9	BD	555889
CD96	APC	NK92.39	BioLegend	338409
CD96	BV421	6F9	BD	742794
CD96	PercpCy5.5	NK92.39	BioLegend	338411
CTLA4//CD152	RY586	BNI3	BD	568442
DNAM1	FITC	11A8	BioLegend	338304
DNAM-1	BV711	11A8	BioLegend	338333
Gzmb	Pacific blue	GB11	BioLegend	515408
IFN γ	APC	4S.B3	Invitrogen	51-7319-42
IFN γ	APC	4S.B3	BioLegend	502512
IFN γ	PercpCy5.5	4S.B3	BioLegend	502526
KLRG1	RB780	Z7-205.rMAb	BD	569137
LAG-3	APC-R700	T47-530	BD	565775
LAG-3	APC	3DS223H	Invitrogen	17-2239-42
MICA/B	BV711	6D4	BD	742326
Nectin-2	APC	TX31	BioLegend	337412
Nectin-2	Percp-Cy5.5	TX31	BioLegend	337415
NKG2a	BB700	131411	BD	747926
NKG2D	BV421	1D11	BioLegend	320822
NKG2D	BV785	1D11	BioLegend	320830
NKG2D	PECy7	1D11	BioLegend	320812
NKp30	BUV737	P30-15	BD	749128
Nkp30	APC	P30-15	BioLegend	325210

NKp44	BUV615	P44-8	BD	752353
NKp46	AF647	9.00E+02	Biolegend	331910
PD1	APCCy7	EH12.2H7	BioLegend	329921
PD1	BV480	EH12.1	BD	566112
PD1	FITC	MIH4	Invitrogen	11-9969-42
PD-L1	APC	29E.2A3	BD	568315
Perforin	BV711	dG9	Sony	2140645
PVR	PECy7	SKII.4	BioLegend	337614
TIGIT	PECy7	A15153G	BioLegend	372713
TIGIT	PercpCy5.5	A15153G	BioLegend	372717
TIM3	BV650	7D3	BD	565564
TNF	BUV395	Mab11	BD	563996
TNF	PECy7	Mab11	Biolegend	502930
ULBP-1	PERCP	170818	R&D Systems	FAB1380C
ULBP-2/5/6	BV605	165903	BD	748131
ULBP3	AF405	166510	R&D Systems	FAB1517V
ULBP-4	AF750	709116	R&D Systems	FAB6285S
Vd1	PE	REA173	Miltenyi	130-120-440
Vd1	FITC	REA173	Miltenyi	130-118-362
Vd1	APC	REA173	Miltenyi	130-119-145
Vd2	APC-Vio770	REA771	Miltenyi	130-111-130
IgG1	BV785	MOPC-21	Biolegend	400169
IgG1	BV711	MOPC-21	Biolegend	400167
IgG1	BV421	X40	BD	400157
IgG1	BV650	X40	BD	563231
IgG1	FITC	MOPC-21	BioLegend	400108
IgG1	RB744	X40	BD	570519
IgG1	BV605	MOPC-21	BioLegend	400161
IgG1	APC-R700	X40	BD	564974
IgG1	BUV737	X40	BD	612758
IgG1	PE	MOPC-21	BioLegend	400112
IgG1	BUV615	X40	BD	612986
IgG1	RB780	X40	BD	568532
IgG1	PercpCy5.5	MOPC-21	Biolegend	400149

IgG1	PECy7	MOPC-21	Biolegend	400125
IgG2a	PECy7	MOPC-173	BioLegend	400232
IgG2a	BB700	G155-178	BD	566419
IgG2a	RY586	G155-178	BD	568131
IgG2a	AF405	20102	R&D Systems	IC003V
IgG2a	BV605	G155-178	BD	562778
IgG2a	BV711	G155-178	BD	563345
IgG2b	BUV395	27-35	BD	563558
IgG2b	APC	MPC-11	BioLegend	400322
IgG2b	AF750	133303	R&D Systems	IC0041S
Mouse CD11b	APCCy7	M1/70	BioLegend	101226
Mouse CD11b	BV711	M1/70	BioLegend	101241
mouseCD45	PEDdzzle	30-F11	BioLegend	103146
mouseCD45	BV510	30-F11	BioLegend	103137
Zombie Violet			BioLegend	423114
Zombie Aqua			BioLegend	423102
Live/Dead NIR			Invitrogen	L34976
Annexin V	AF647		BioLegend	640912
Caspase 3/7 Green			Invitrogen	R37111
CFSE			Invitrogen	C34554
CellTraceViolet			Invitrogen	C34557
CellTraceYellow			Invitrogen	C34567