

Supplemental Data

TableS1. The systemic administered MDSC prefer to migrate to islet allografts

Group*	Total number of CD45.2 ⁺ cells** (mean ± SD ×10 ⁴)			
	POD 1	POD 2	POD 4	POD 7
Graft	3.63±0.78	6.62±1.10	3.26±1.09	0.91±0.23
dLN	0.0092±0.0031	0.0225±0.0051	0.0346±0.0112	0.0696±0.0158
	<i>p</i> <0.05	<i>p</i> <0.05	<i>p</i> <0.05	<i>p</i> <0.05

*2 × 10⁶ MDSC generated from normal B6 mice (CD45.2) mice were i.v. injected into the congenic mice (CD45.1) immediately after transplantation of 300 BALB/c islets (n=3). Leukocytes were isolated from islet allografts and draining lymph node (dLN) on POD 1, 2, 4 and 7, and stained with anti-CD11b and -CD45.2 for flow analysis gated on CD11b⁺ population.

** The number of CD45.2⁺ cells were calculated based on flow analysis data.

Table S2. Migration of the systemic administered MDSC to islet allografts requires expression of CCR2

Group*	Total number of CD45.2 ⁺ cells** (mean ± SD ×10 ⁴)			
	POD 1	POD 2	POD 4	POD 7
WT Sys	4.10±0.40	7.77±0.71	1.83±0.35	1.07±0.15
CCR2 ^{-/-} Sys	0.0017±0.0006	0.0007±0.0002	0.0006±0.0003	0.0005±0.0002
	<i>p</i> <0.05	<i>p</i> <0.05	<i>p</i> <0.05	<i>p</i> <0.05

*2 × 10⁶ MDSC generated from WT or CCR2^{-/-} mice (CD45.2) mice were i.v. injected into normal congenic mice (CD45.1) immediately after transplantation of 300 BALB/c islets (n=3). Leukocytes were isolated from islet allografts on POD 1, 2, 4 and 7, and stained with anti-CD11b and -CD45.2 for flow analysis gated on CD11b⁺ population.

** The number of CD45.2⁺ cells were calculated based on flow analysis data.

Table S3. Monitoring of blood glucose levels in a diabetic animal receiving systemic administration of WT MDSC immediately after allogeneic islet transplantation*

POD	0	2	4	6	10	14	16	20	23
Event	Islet Transplant								
Blood Glucose (mg/dl)	385**	110	145	135	155	135	145	140	140

POD	26	30	34	37	40	3	47	50	54	57
Event										
Blood Glucose (mg/dl)	120	150	125	135	175	160	135	170	170	135

POD	60	63	65	67
Event	Nephrectomy***			
Blood Glucose (mg/dl)	125	275	350	465

* 2×10^6 MDSC generated from normal B6 mice were i.v. injected into a B6 recipient immediately after transplantation of 300 BALB/c islets.

**Blood glucose level before islet transplantation.

***Removal of the kidney that was transplanted with islet allografts.