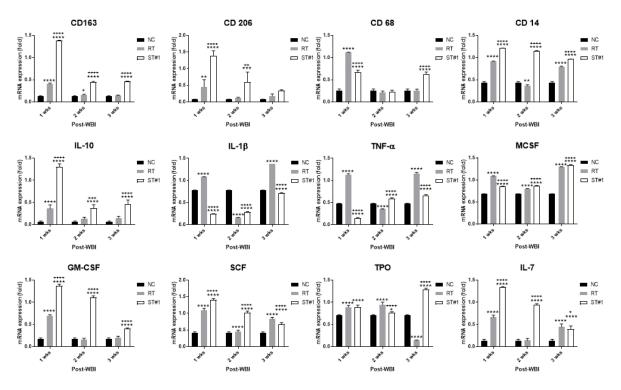
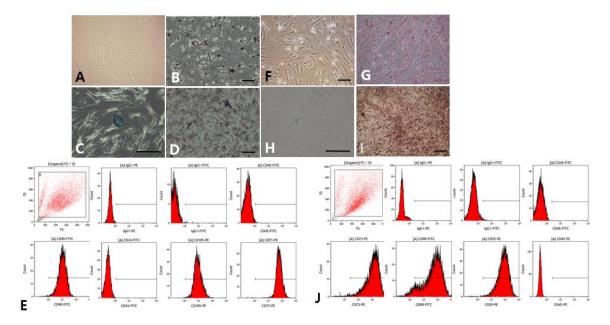
Supplementary Table 1 Primers used for qRT-PCR in human and mouse gene expression analysis, respectively

Speci	Gen	Sequence 5'-3'	Amplicon	
es	e	Forward	Reverse	size (bp)
Hum an	β- Acti n	GGACTTCGAGCAAGA GATGG	AGCACTGTGTTGGCGT ACAG	235
Hum an	IL-4	CCGTAACAGACATCT TTGCTGCC	GAGTGTCCTTCTCATG GTGGCT	108
Hum an	IL-10	TCTCCGAGATGCCTTC AGCAGA	TCAGACAAGGCTTGG CAACCCA	126
Hum an	IL-1β	CCACAGACCTTCCAG GAGAATG	GTGCAGTTCAGTGATC GTACAGG	136
Hum an	TNF- α	CTCTTCTGCCTGCTGC ACTTTG	ATGGGCTACAGGCTTG TCACTC	135
Hum an	CD6 8	CGAGCATCATTCTTTC ACCAGCT	ATGAGAGGCAGCAAG ATGGACC	136
Hum an	CD8 0	AGGAACACCCTCCAA TCTCTG	GGTCAAAAGTGAAAG CCAACA	150
Hum an	CD2 06	AGCCAACACCAGCTC CTCAAGA	CAAAACGCTCGCGCA TTGTCCA	121
Mous e	GM CSF	CAAAGAAGCCCTGAA CCTCCT	TGGCTGTCATGTTCAA GGCG	179
Mous e	MCS F	TGTACCCTAAAGCCA CCCCT	TATGCGAAGGGGAAG CTCAC	155
Mous e	IL-7	TTCTGCTGCCTGTCAC ATCAT	AACTTGCGAGCAGCA CGATT	208
Mous e	TPO	AGCTCACAAGGACCC CAATG	TGAATCCCTGAAGCCT GCTC	257
Mous e	SCF	ACACAAGTGAGTAGG GCACG	CCCGCAGATCTCCTTG GTTT	201

Mous	SDF-	CGGTTCTTCGAGAGCC	TTGTTCTTCAGCCGTG	101	
e	1	ACAT	CAAC	101	
Mous	TT 10	TGGTGTGTGACGTTCC	TGTCGTTGCTTGGTTCT	174	
e	IL-1β	CATT	ССТ		
Mous	TNF-	TGGCCTCCCTCTCATC	GTCCCTTGAAGAGAA	191	
e	α	AGTT	CCTGGG	171	
Mous	CD1	GTGGCTAAAGCCTGG	GCAGCGCTAAAACTT	191	
e	4	ACTCA	GGAGG		
Mous	CD6	AATGTGTCCTTCCCAC	AGAAACATGGCCCGA	202	
e	8	AGGC	AGTGT		
Mous	CD1	GGGCAGTATTGGCAG	TGTTTCCAAGGTGACG	195	
e	63	TAGCA	AGGG		
Mous	CD2	GTGTGGAACCACCAC	GGTCAGCATTCTGCTG	182	
e	06	TGACT	CTTG		
Mous	IL-10	CAGTACAGCCGGGAA	AGGCTTGGCAACCCA	184	
e		GACAA	AGTAA	104	
Mous	GAP	GGGGTGAGGCCGGTG	CATTGGGGGGTAGGAA	459	
e	DH	CTGAGTAT	CACGGAAGG	н <i>Ј 7</i>	



**Supplementary Figure 1 Human and mouse adipose tissue-derived stromal cells (ADSCs) were cultured and characterized by flow cytometry and multilineage differentiation.** (A–D) Human ADSCs grew as a monolayer of spindle-shaped cells. Adipogenic, chondrogenic, and osteogenic differentiation was evaluated using Oil Red O, toluidine blue, and von Kossa staining, respectively. (E) human ADSCs expressed CD73, CD90, and CD105, but not CD34 and CD45. (F–I) Mouse ADSCs were spindle - shaped, similar to fibroblasts. Multiple lineage differentiation of mouse ADSCs into bone, fat, and cartilage was shown by staining with von Kossa, Oil Red O, and toluidine blue, respectively. (J) CD29, CD73, and CD90 were expressed in mouse ADSCs at a rate >90%, and CD45, CD31, and CD34 were not expressed. Original Magnification under phase-contrast microscope: 100x (A, B, D, F, G, I) and 200x (C, H). Scale bar: 100 μm



Supplementary Figure 2 Characterization of repopulated bone marrow (BM) postwhole-body irradiation (WBI) in the normal control (NC), irradiated (RT), and stem cell-treated (ST) groups. mRNA expression in the BM at weeks 1, 2, and 3 post-WBI was evaluated using reverse transcription PCR (RT-PCR). CD, cluster of differentiation; IL, interleukin; TNF- $\alpha$ , tumor necrotic factor- $\alpha$ ; M-CSF, macrophage colony-stimulating factor; GM-CSF, granulocyte-macrophage colony-stimulating factor; SCF, stem cell factor; SDF-1, stromal cell-derived factor 1; TPO, thrombopoietic growth factor; GAPDH, glyceraldehyde 3-phosphate dehydrogenase. \*p < 0.05, \*\*p < 0.01, \*\*\*p < 0.001, and \*\*\*\*p < 0.0001 vs. controls; \*p < 0.05, ++p < 0.01, ++++p < 0.001, and \*\*\*\*p < 0.0001 vs. RT.