

SUPPLEMENTAL TABLES

Table S1. List of Antibodies used.

Protein	Antibody Name	Clone	Source
Osteocalcin	α OC PAb	OCG2	TaKaRa Shizuo (Japan)
Osteopontin	α OP PAb	LF123	Dr. Larry Fisher (NIH)
Osteonectin	α ON PAb	LF37	Dr. Larry Fisher (NIH)
Biglycan	α BG PAb	LF51	Dr. Larry Fisher (NIH)
Decorin	α DEC PAb	LF136	Dr. Larry Fisher (NIH)
Alkaline phosphatase	α AP PAb	LF47	Dr. Larry Fisher (NIH)
Leptin	α LEP	A-20	Santa Cruz Biotechnology (Santa Cruz, CA)
GLUT4	α G4	H-61	Santa Cruz Biotechnology (Santa Cruz, CA)
Microtubule associated protein-2	α MAP MAb	AP20	Leinco Technologies (St. Louis, MO)
Neurofilament 70 KDa	α NF MAb	8A1	Leinco Technologies (St. Louis, MO)
Tau	α TAU MAb	TAU-2	Leinco Technologies (St. Louis, MO)
Trk-a (NGF receptor)	α TRK MAb	763	Santa Cruz Biotechnology (Santa Cruz, CA)
Neuronal Nuclei	α NeuN MAb		Santa Cruz Biotechnology (Santa Cruz, CA)
Glial fibrillary protein	α GFAP PAb	6F2	DAKO (Carpinteria, CA)
Cytosolic heat shock protein 70 kDa	α HSC PAb		Stressgen (Victoria, BC)
Myosin Heavy Chain	α MYS	my-32	Biomed (Foster City, CA)
Collagen type II	α CNII MAb	II-4CII	ICN (Aurora, OH)
Keratan sulfate	α KS MAb	5-D-4	ICN (Aurora, OH)
Chondroitin-4-sulfate	α CS MAb		ICN (Aurora, OH)
Cluster designation antigens	α CD MAb's		BD Pharmingen (San Diego, CA)
PECAM-1	α CD31	9G11	R&D Systems (Minneapolis, MN)
Transferrin receptor (CD71)	α CD71 MAb	H68.4	Zymed (South San Francisco, CA)

MAb – monoclonal antibody

PAb – polyclonal antibody

Table S2. Oligonucleotide primer sequences and expected PCR product sizes

Lineage	Gene	Oligonucleotide primers	Product size	
BONE	Osteonectin (ON)	5' TGTGGGAGCTAATCCTGTCC 3' T CAGGACGTTCTTGAGCCAGT	400 bp	
	Osteopontin (OP)	5' GCTCTAGAATGAGAATTGCACTG 3' GTC AATGGAGTCCTGGCTGT	270 bp	
	Osteocalcin (OC)	5' GCTCTAGAATGGCCCTCACACTC 3' GCGATATCCTAGACCGGGCCGTAG	302 bp	
	Core binding factor α -1 (CBFA-1)	5' CTCCTACTACCACCTACCTG 3' TCAATATGGTCGCCAAACAGATTC	320 bp	
	Collagen I (CNI) (α 1 chain)	5' GAGAGAGAGGCTTCCCTGGT 3' CACCAGGATCACCCTCTTG	300 bp	
	Alkaline phosphatase (AP)	5' TGAATATGCCCTGGAGC 3' TCACGTTGTTCTGTTTAG	475 bp	
	Retinoid X Receptor alpha (RXR α)	5' ACATGGCTTCTTACCAAG 3' CAGCTCAGCCTCCAGGATCC	300 bp	
	Vitamin D Receptor (VDR)	5' CTCGTCAGCTTCTCCAATC 3' GCTCCTCCTCATGCAAGTTC	400 bp	
	c-fos	5' CCTGTCAAGAGCATCAGCAG 3' GTCAGAGGAAGGCTCATTGC	348 bp	
	msx2	5' TTACCACATCCCAGCTCCTC 3' GCATAGGTTTTGCAGCCATT	201 bp	
	distal-less 5 (dlx5)	5' TTGCCCGAGTCTTCCAGCTAC 3' TCTTTCTCTGGCTGTTGGT	254 bp	
	Bone morphogenic protein (BMP2)	5' AGACCTGTATCGCAGGCACT 3' CCAACTGGGTGCCAAAAGT	350 bp	
	Parathyroid Hormone Receptor 1 (PTHr)	5' ACCGTAGCTGTGCTCATCCT 3' CCCTCCACCAGAATCCAGTA	300 bp	
	FAT	aP2	5' TGGTTGATTTCCATCCCAT 3' TACTGGGCCAGGAATTTGAT	150 bp
		LPL	5' GAGATTTCTCTGTATGGCACC 3' CTGCAAATGAGACACTTTCTC	276 bp
PPAR gamma1 (γ 1)		5' GCTCTAGAATGACCATGGTTGAC 3' ATAAGGTGGAGATGCAGGCTC	250 bp	
Leptin		5' GGCTTTGGCCCTATCTTTTC 3' GCTCTTAGAGAAGGCCAGCA	325 bp	
GLUT4		5' AGCAGCTCTCTGGCATCAAT 3' CAATGGAGACGTAGCACATG	275 bp	
PPAR gamma2 (γ 2)		5' GCTGTTATGGGTGAAACTCTG 3' ATAAGGTGGAGATGCAGGTTTC	325 bp	
CARTILAGE		Collagen II (α 1 chain)	5' ATGATTCGCCTCGGGGCTCC 3' TCCCAGGTTCTCCATCTCTG	260 bp
	Aggrecan	5' GCAGAGACGCATCTAGAAATT 3' GGTAATTGCAGGGAACATCAT	505 bp	
	Decorin	5' CCTTTGGTGAAGTTGGAACG 3' AAGATGTAATCCGTAAGGG	300 bp	
	Biglycan	5' TGCAGAACAAACGACATCTCC 3' AGCTTGGAGTAGCGAAGCAG	475 bp	
	Collagen X	5' TGGAGTGGGAAAAGAGGTG 3' GTCCTCCAATCCAGGATCA	600 bp	
MUSCLE	MyoD1 (MD1)	5' AAGCGCCATCTCTTGGAGTA 3' GCGCCTTTATTTTGATCACC	500 bp	
	Myf5	5' CCACCTCCAATGCTCTGAT 3' GGAGTTCGAGGCTGTGAATC	250 bp	
	Myogenin (MG0)	5' TGGGCGTGTAAAGTGTGTAA 3' TTGAGCAGGGTGCTTCTCTT	130 bp	
	Myosin (MYS)	5' TGTGAATGCCAAATGTGCTT 3' GTGGAGCTGGGTATCCTTGA	750 bp	
	Myf6	5' AGAGAAAATCTGCCCCCACT 3' GATGGAAGAAAGGCATCGAA	410 bp	
	Desmin	5' GGTGGAGGTGCTCACTAACC 3' TGTTGTCCTGGTAGCCACTG	600 bp	
NERVE	Glial Fibrillary Acidic Protein (GFAP)	5' AATGCTGGCTTCAAGGAGAC 3' CCAGCGACTCAATCTTCTCTC	406 bp	
	GAD65	5' TGGCGATGGGATATTTTCTC 3' GCACTCACGAGGAAAGGAAC	300 bp	
	Nestin	5' GGAGTCGTTTCAGATGTGGG 3' AGCTTTCAGCCAGGTTGTC	242 bp	
	Choline acetyltransferase (CHaT)	5' TACAGGCTCCACCGAAGACT 3' AATCCTGGTCTCTGGCCCTTC	376 bp	