

Materials List for:

Immunomagnetic Separation of Fat Depot-specific Sca1^{high} Adipose-derived Stem Cells (ASCs)

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Materials

Name	Company	Catalog Number	Comments
Type 3 Collagenase	Worthington Biochemical	LS004182	Tissue digestion
DMEM	Gibco	11965-092	High-glucose culture medium
Pen/Strep/Glutamine (100x)	Gibco	10378-016	Media antibiotic
Anti-anti (100x)	Gibco	15240-062	Media antifungal
FBS	Gibco	16000-044	
PBS (1x, pH 7.4)	Gibco	10010-023	
Trypsin (0.05%)	Gibco	25300-054	
Cell strainer	BD Bioscience	352360	100-µm cell strainer
60 mm plates	BD Falcon	353004	
Scissors	FST	14001-12	Large
Scissors	FST	14091-11	Fine, curved tip
Large Forceps	FST	11000-12	
Fine Forceps	Any vendor		
25G 5/8" needles	BD	305122	
22G 1.5" needles	BD	305159	
15 ml conical tubes	BD Falcon	352097	
50 ml conical tubes	BD Falcon	352098	
MACS separation columns	Miltenyi Biotec	130-042-201	
Anti-Sca1 microbead kit (FITC)	Miltenyi Biotec	130-092-529	FITC-anti-Sca1 1 ^o Ab and anti-FITC microbeads 2 ^o Ab
AutoMACS running buffer	Miltenyi Biotec	130-091-221	
MiniMACS separator	Miltenyi Biotec	130-042-102	
MACS MultiStand	Miltenyi Biotec	130-042-303	
Blue chux pads	Fisher	276-12424	
Absorbent pads	Fisher	19-165-621	
Styrofoam board			Use from 50 ml tubes
70% ethanol			
Isoflurane	Any vendor		
Rat IgG2a Alexa Fluor 647	Invitrogen	R2a21	
Rat IgG2a anti-mouse Sca1 Alexa Fluor 647	Invitrogen	MSCA21	
Rat IgG2a R-PE	Invitrogen	R2a04	
Rat IgG2a anti-mouse F4/80 R-PE	Invitrogen	MF48004	
Round-bottom tube	BD Falcon	352058	

HBSS (-Ca, -Mg)	Gibco	14175-095	
HBSS (+Ca, +Mg)	Gibco	14025-092	For collagenase solution
Type I collagen (2.7 mg/ml in 37mm acetic acid)	Prepare in house ¹²		
10x MEM	Gibco	11430-030	
1 M HEPES	Gibco	15630-080	
0.34 N NaOH	Prepare in house		
Cover slips	Corning	2870-22	
Alexa Fluor 594 carboxylic acid, succinimidyl ester, mixed isomers	Invitrogen	A-20004	
0.89 M NaHCO ₃	Gibco	25080-094	