

Materials List for:

Immunodetection of Outer Membrane Proteins by Flow Cytometry of Isolated Mitochondria

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Materials

Name	Company	Catalog Number	Comments
Rats	Charles River	Strain code 400	Adult (9 weeks to 18 weeks) male or female rats can be used for the isolation protocol. Weight of rats is dependent on gender and age (males between 300 to 500 g and females between 200 to 350 g) are typically used.
Dounce homogenizer	Kontes Glass Co.	885450-0022	Duall 22
Microcentrifuge	Thermo Scientific		Sorvall Legend Micro 17 R
Ultra-Clear Ultracentrifuge tubes	Beckman Coulter	344057	Transparent, thin walled
Sorvall Ultracentrifuge	Thermo Scientific		Sorvall WX UltraSeries
AH-650 rotor and buckets	Thermo Scientific		
Opti-prep	Axis-Shield	1114542	Iodixanol, density gradient medium
Fatty acid free Bovine Serum Albumin	Sigma	A8806	Must be fatty acid free for mitochondria
Sodium succinate dibasic hexahydrate	Sigma	S9637	
Rabbit anti-Mitofusin2 antibody	Sigma	M6319	
Rabbit IgG	Jackson Immuno Research	011-000-003	
Anti-Rabbit IgG PE	eBioscience	12-4739-81	
Micro titer tube	Bio-Rad	223-9391	For sample acquisition by flow cytometry
MitoTrackerGreen (MTG)	Invitrogen	M7514	100 nM: Ex 490 nm/Em 516 nm
TMRM	Invitrogen	T668	100 nM: Ex 548 nm/Em 574 nm
CCCP	Sigma	C2759	
MitoSOX Red	Invitrogen	M36008	5 µM: Ex 540 nm/Em 600 nm
Antimycin A	Sigma	A8874	
LSR II flow cytometer	BD		
BD FACSDiva Software	BD		
FlowJo	TreeStar Inc.		Software used for analysis
BCA protein assay kit	Pierce/Thermo Scientific	23225	Bradford assay is not recommended as it is not compatible with high concentrations of SDS