

Materials List for

Ferritinophagy: Assessing the Selective Degradation of Iron by Autophagy in Human Fibroblasts

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jove.com/video/65110

Materials

Name	Company	Catalog Number	Comments
Cell lines			
Primary skin-derived human fibroblasts	Skin biopsy, healthy human donor, Biobank University Clinic Tübingen, Ethical approval 389/2019BO2	F-CO-60, passage 9	
Cell culture treatments			Final concentration (compound)
Control medium	DMEM 10%FCS		(DMSO only)
Control medium + bafilomycinA1	DMEM 10%FCS		100 nM bafilomycin A1
Control medium + deferasiox (DFX)	DMEM 10%FCS		30 µM DFX
Control medium + DFX + bafilomycinA1	DMEM 10%FCS		30 µM DFX, 100 nM bafilomycin A1
Control medium + ferric ammonium citrate (FAC)	DMEM 10%FCS		0.05 mg/mL FAC
Control medium + FAC + bafilomycinA1	DMEM 10%FCS		0.05 mg/mL FAC, 100 nM bafilomycin A1
Material			
Albumin [BSA] Fraction V	AppliChem	A1391	
Alexa 488 goat a-rabbit	Life Technologies	A-11008	
Alexa 546 goat a-mouse	Life Technologies	A-11003	
Bafilomycin A1	Sigma Aldrich	196000	
BioLite Cell Culture treated 10cm dishes	Thermo Scientific	130182	
DAPI	AppliChem	A4099	
Deferasiox (ICL-670)	Selleckchem	S1712	
DMEM Glutamax	Gibco	31966	
DMSO	AppliChem	A3672	
DPBS no calcium nor magnesium	Gibco	14190094	
Fetal bovine serum (FCS)	Gibco	10437-028	
Ferric ammonium citrate (FAC)	Merck	F5879	
Anti-FERRITIN (Human Spleen)	Rockland	200-401-090-0100	
LAMP2 (H4B4)	Santa Cruz	Sc-18822	

Paraformaldehyde (PFA)	Sigma-Aldrich	441244	
PBS 10x Dulbecco's	AppliChem	A0965	
PenStrep (1,00U/mL penicillin, 100 mg/mL streptomycin)	Life Technologies	15140-122	
Trypsin-EDTA (0.05%) with phenol red	Gibco	25300	
Tween20	AppliChem	A4974	
96 well glass-bottom #0 plates	Cellvis	P96-0-N	
Solution			
3.7% paraformaldehyde (PFA)			PFA dissolved in PBS, pH 7.5
Bafilomycin A1 100 mM stock			Bafilomycin A1 diluted in DMSO
Ferric ammonium citrate (FAC) 100 mg/mL stock			FAC diluted in autoclaved double distilled water
PBS/T			PBS, supplemented with 10% Tween20
PBS/T + BSA			PBS, supplemented with 10% Tween20, 1% BSA
Software			
CellProfiler 4.2.4	https://cellprofiler.org/		
GraphPad Prism	Dotmatics		
Microsoft Excel Version 16.50	Microsoft Office Plus 365		