

Materials List for

Assessment of Cellular Oxidation using a Subcellular Compartment-Specific Redox-Sensitive Green Fluorescent Protein

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Citation

Tascioglu Aliyev, A., LoBianco, F., Krager, K.J., Aykin-Burns, N. Assessment of Cellular Oxidation using a Subcellular Compartment-Specific Redox-Sensitive Green Fluorescent Protein. *J. Vis. Exp.* (), e61229, doi:10.3791/61229 (2020).

Date Published

June 18, 2020

DOI

10.3791/61229

URL

jove.com/video/61229

Materials

Name	Company	Catalog Number	Comments
0.25% Trypsin-EDTA	Gibco by Life Sciences	25200-056	Cell culture
4-well chamber slide	Thermo Scientific	154526	Cell seeding material for fluorescent imaging
5 ml tubes with cell strainer cap	Falcon	352235	Single cell suspension tube for flow cytometry analysis
6-well plate	Corning	353046	Cell seeding material for flow cytometry analysis
15 ml conical tubes	MidSci	C15B	Cell culture
75 cm ² ventilated cap tissue culture flasks	Corning	4306414	Cell culture
Adenoviral cytosol specific roGFP	ViraQuest	VQAd roGFP	roGFP construct kindly provided by Dr. Schumaker
Class II, Type A2 Safety Hood Cabinet	Thermo Scientific	1300 Series A2	Cell culture
Countess automated cell counter	Invitrogen	C10227	Cell counting
Countess cell counter chamber slides	Invitrogen	C10283	Cell counting
DMEM	Gibco by Life Sciences	11995-065	Cell culture
FBS	Atlanta Biologicals	S11150	Cell culture
Filtered pipette tips, sterile, 20 µl	Fisherbrand	02-717-161	Cell culture
Filtered pipette tips, sterile, 1000 µl	Fisherbrand	02-717-166	Cell culture
Flow Cytometer	BD Biosciences	LSRFortessa	Instrument equipped with FITC and BV510 bandpass filters for flow cytometry analyses
Fluorescent Microscope	Advanced Microscopy Group (AMG)	Evos FL	Fluorescent imaging
Hydrogen Peroxide 30%	Fisher Scientific	H325-100	Positive control
Light Cube, Custom	Life Sciences	CUB0037	Fluorescent imaging of roGFP expressing cells (ex 405 nm)

Light Cube, GFP	Thermo Scientific	AMEP4651	Fluorescent imaging of roGFP expressing cells (ex 488 nm)
MDA-MB-231	American Tissue Culture Collection	HTB-26	Human epithelial breast cancer cell line
Microcentrifuge tubes, 2 ml	Grenier Bio-One	623201	Cell culture
PBS	Gibco by Life Sciences	10010-023	Cell culture
Pipet controller	Drummond	Hood Mate Model 360	Cell culture
Serological pipet, 1 ml	Fisherbrand	13-678-11B	Cell culture
Serological pipet, 5 ml	Fisherbrand	13-678-11D	Cell culture
Serological pipet, 10 ml	Fisherbrand	13-678-11E	Cell culture
Tissue Culture Incubator	Thermo Scientific	HERACell 150i	CO ₂ incubator for cell culture
Trypan blue stain 0.4%	Invitrogen	T10282	Cell counting