

Materials List for:

Analysis of Cap-binding Proteins in Human Cells Exposed to Physiological Oxygen Conditions

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Materials

Name	Company	Catalog Number	Comments
γ -aminophenyl-m ⁷ GTP agarose C ₁₀ -linked beads	Jena Bioscience	AC-1555	Agarose-linked m ⁷ GTP
100 mm culture dish	Corning	877222	10-cm culture dish
150 mm culture dish	ThermoFisher	130183	15 cm culture dish
AEBSF Hydrochloride	ACROS Organics	A0356829	AEBSF
Agarose Beads	Jena Bioscience	AC-0015	Agarose bead control
Bromophenol Blue	Fisher	BP112-25	Component of SDS-PAGE loading buffer
1.5 ml Centrifuge Tubes	FroggBio	1210-00S	Used to centrifuge small volumes
15 ml Conical Centrifuge Tubes	Fisher	1495970C	Used in culturing primary cells
Defined trypsin inhibitor	Fisher	R007100	DTI
Dithiothreitol	Fisher	BP172-25	DTT
Epithelial cell medium (complete kit)	ScienCell	4101	Includes serum and growth factor supplements)
Glycerol	Fisher	BP229-1	Component of SDS-PAGE loading buffer
100 mM Guanosine 5'-triphosphate, 1 ml	Jena Bioscience	272076-0251M	GTP
HCT116 colorectal carcinoma	ATCC	CCL-247	Human cancer cell line
Human renal proximal tubular epithelial cells	ATCC	PCS-400-010	HRPTEC
Hyclone DMEM/High Glucose	GE Life Sciences	SH30022.01	Standard media for human cell culture
Hyclone Penicillin-Streptomycin solution	GE Life Sciences	SV30010	Antibiotic component of DMEM
H35 HypOxystation	Hypoxygen	N/A	Hypoxia workstation
Igepal CA-630	MP Biomedicals	2198596	Detergent component of lysis buffer
Monopotassium phosphate	Fisher	P288-500	KH ₂ PO ₄
Potassium chloride	Fisher	P217-500	KCl
Magnesium chloride	Fisher	M33-500	MgCl ₂
Sodium chloride	Fisher	BP358-10	NaCl
Sodium fluoride	Fisher	5299-100	NaF (phosphatase inhibitor component of lysis buffer)
Disodium phosphate	Fisher	5369-500	Na ₂ HPO ₄

Premium Grade Fetal Bovine Serum	Seradigm	1500-500	FBS
Protease Inhibitor Cocktail (100x)	Cell Signalling	58715	Component of lysis buffer
Sodium Dodecyl Sulfate	Fisher	BP166-100	SDS
Sodium Orthovanadate	Sigma	56508	Na ₃ VO ₄
Tris Base	Fisher	BP152-5	Component of buffers
0.05% Trypsin-EDTA (1x)	Life Technologies	2500-067	Trypsin used to detach adherent cells