

Measuring Axonal Cargo Transport in Mouse Primary Cortical Cultured Neurons

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jove.com/video/64999

Materials

Name	Company	Catalog Number	Comments
5-Fluoro-2-deoxyuridine	Sigma-Aldrich	F0503	
Apo TIRF 100x/1.49 OIL	Nikon		
B-27 Supplement (50x), serum free	Thermo fischer scientific	17504044	
Bovine serum albumin	Wako	013-25773	
CalPhos Mammalian Transfection Kit	Takara	631312	
Cell strainer 40 µm Nylon	Falcon	352340	
CoolSNAP HQ	Photometrics		
Deoxyribonuclease I	Sigma-Aldrich	DN-25	
D-Glucose	Wako	041-00595	
DMEM/Ham's F-12	Wako	042-30555	
Dumont No. 7 forceps	Dumont	No.7	
Feather surgical blade	Feather	No.11	
Feather surgical blade handle	Feather	No. 3	
Gentamicin	Wako	079-02973	
Gentamicin Sulfate	Wako	075-04913	
GlutaMAX Supplement	Thermo fischer scientific	35050061	
HEPES	DOJINDO	342-01375	
Horse Serum, heat inactivated	Thermo fischer scientific	26050088	
KCl	Wako	163-03545	
KH ₂ PO ₄	Wako	169-04245	
KYMOMAKER			http://www.pharm.hokudai.ac.jp/shinkei/Kymomaker.html
L-15 Medium (Leibovitz)	Sigma-Aldrich	L5520	
MetaMorph version 6.2r1	Metamorph		
Na ₂ HPO ₄	Wako	197-02865	
NaCl	Wako	197-01667	
NaHCO ₃	Wako	191-01305	

Neurobasal Medium	Thermo fischer scientific	21103049	
Nikon ECLIPSE TE 2000-E	Nikon		
Nunc Lab-Tek 8 well Chambered Coverglass	Thermo fischer scientific	155411	
Papain	Worthington	LS003126	
Penicillin-Streptomycin (10,000 U/mL)	Thermo Fisher Scientific	15140122	
Poly-L-lysine hydrobromide	Sigma-Aldrich	P2636-500MG	
Trizma base	Merck	T1194-10PAK	solved with water to make 0.1 M Tris-HCl (pH.8.5)