

Materials List for:

A Novel *In Vitro* Live-imaging Assay of Astrocyte-mediated Phagocytosis Using pH Indicator-conjugated Synaptosomes

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Materials

Name	Company	Catalog Number	Comments
Synaptosome purification			
Percoll	GE healthcare life sciences	17-0891-01	
Quick Start Bradford Protein Assay Kit 2	BIO-RAD	5000202	
pH indicator conjugation			
Dimethyl sulfoxide(DMSO)	LPS solution	DMSO100	
pHrodo red, succinimidyl ester	Molecula probes	P36600	
Immunopanning			
10X Earle's balanced salt solution (EBSS)	Sigma	E7510	
Bovine serum albumin	Bovogen	BSA025	
Deoxyrebonuclease 1 (DNase)	Worthington	Is002007	
(DMEM)	Gibco	11960-044	
(dPBS)	Welgene	LB001-02	
Fetal bovine serum (FBS)	Gibco	16000-044	
Griffonia Simplicifolia Lectin(BSL-1)	Vector Labs	L-1100	
Goat anti-mouse IgG+IgM(H+L)	Jackson ImmunoResearch	115-005-044	
Goat anti-mouse IgM (μ-chain)	Jackson ImmunoResearch	115-005-020	
Heparin-binding epidermal growth factor	Sigma	E4643	
Human HepaCAM antibody	R&D systems	MAB4108	
Integrin beta 5 monoclonal antibody (KN52)	eBioscience	14-0497-82	
L-cysteine	Sigma	C7880	
L-glutamate	Gibco	25030-081	
N-acety-L-cyteine (NAC)	Sigma	A8199	
Neurobasal media	Gibco	21103-049	
O4 hybridoma supernatant(mouse IgM)	Bansal et al. ²³		
Papain	Worthington	Is003126	
Penicillin/streptomycin	Gibco	15140-122	
Pluristrainer 20 μm	PluriSelect	43-50020-03	
Poly-D-lysine	Sigma	P6407	
Progesterone	Sigma	P8783	
Putrescine dihydrochloride	Sigma	P5780	
Purified rat anti-mouse CD45	BD Pharmingen	550539	

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Sodium pyruvate	Gibco	11360-070	
Sodium selenite	Sigma	S5261	
Transferrin	Sigma	T1147	
Trypsin	Sigma	T9935	
Trypsin inhibitor	Worthington	LS003086	
Ultra-clear tube (Tube, Thinwall, Ultra-Clear)	Beckman Coulter	344059	
Collect IP-ACM			
Macrosep Advance Centrifugal Devices with Omega Membrane (10k)	PALL	MAP010C37	
Macrosep Advance Centrifugal Devices with Omega Membrane (30k)	PALL	MAP030C37	
Phagocytosis live imaging assay			
Juli stage	NanoEntek		
Time Series Analyzer V3 plugins	https://imagej.nih.gov/ij/plugins/time-series.html		