

Materials List for:

# Polymalic Acid-based Nano Biopolymers for Targeting of Multiple Tumor Markers: An Opportunity for Personalized Medicine?

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## Materials

Name	Company	Catalog Number	Comments
2-Mercapto-1-ethylamine (Cysteamine; 2MEA)	Sigma-Aldrich	30078-25G	
4',6-Diamidino-2-phenylindole (DAPI)	Vector Laboratories, Burlingame, CA		
90-Day release 17 $\beta$ -estradiol pellet	Innovative Research of America		
Alexa Fluor 680 C2 maleimide	Invitrogen	A20344	
Amberlite IR 120H	Sigma-Aldrich	6428	
Antifoam Y-30 Emulsion	Sigam-Aldrich	A5758	
Anti-laminin-411 chain mAbs	Santa Cruz	SC-59980	
Anti-pAkt mAb	Cell Signalling	9271S	
Anti-PARB mAb	BD Biosciences	556494	
Anti-von Willebrand Factor antibody	Abcam	AB6994	
Bacto Yeast Extract	Bacto, Dickinson/Sparks, MD	212720	
Beta-actin	Cell Signalling	3700	
BT-474	ATCC	HTB-20	
Calcium Carbonate	Alfa Aesar	36337	
Cell Proliferation Assay kit	Promega, Madison, WI, USA	PR-G3580	
Centriplus 100	Millipore	4414	
Dicyclohexylcarbodiimide	Fluka	36650	
DMEM	Sigma-Aldrich	D5796	
Eosin	Cardinal Health	S7439-4	
Galardin (MMP-inhibitors)	Santa Cruz	SC-994	
GAPDH	Cell Signalling	2118	
Hematoxilin	Cardinal Health	S7439-3	
Hemin from porcine	Sigma-Aldrich	51280	
Herceptin	Genentech	15534	
Herceptin (Western blotting)	Cell Signalling	2165S	
IgG2a-kappa murine malignoma	Sigma	M77695X5m	
Immun-Star AP Substrate Pack	Biorad	170-5012	
Immun-Star <sup>TM</sup> AP Substrate Pack	Biorad	170-5012	
LAL Reagent water	Lonza, MD	W50-1000	
Laminin-411 mAbs	Abcam		

Leucine ethyl ester (LOEt)	Sigma-Aldrich	61850-10G-F	
Limulus Amebocyte Lysate (LAL) PYROGENT-5000 tests	Cambrex BioScience	N384	
Lissamin-Morpholino AON	Gene Tools	Custom made	
L-malic acid	Sigma-Aldrich	M6413	
Malate dehydrogenase	Sigma-Aldrich	M2634	
Mal-PEG-Mal	Laysan	mal-PEG-mal-3400	
Matrigel	BD Biosciences	354248	
Milk, nonfat powdered	Proteomics	M203-10G	
Morpholino oligonucleotides	GeneTools	custom made	
mPEG5000	Lysan	mPEG-NH2-5000	
N-hydroxysuccinimide (NHS)	ACROS Organics	15727100	
Ninhydrin	Merck	1.06762.0100	
Nitrocellulose Membrane Filter Paper Sandwich	Invitrogen	LC2001	
Nitrocellulose Membrane Filter Paper Sandwich, 0.45 µm	Invitrogen	LC2001	
Novex® Tris-Glycine Transfer Buffer (25x)	Invitrogen	LC3675	
Nude Mice [Tac:Cr:(Mcr)-Foxn <sup>nm</sup> ]	Taconic		
PBS pH 7.2 10x	Gibco	10010-49	
PBS pH 7.2 1x	Gibco	70013	
PD-10 desalting columns	GE Healthcare	17-0851	
Physarum polycephalum M3CVII	ATCC	204388	
Pierce BCA protein assay	Thermo Scientific	23225	
Protease inhibitor cocktail	Roche	1.18362E+11	
Protein Detector ELISA Kit	KPL	54-62-18	
Sephadex G-25 superfine	GE Healthcare	17-0031	
Sephadex G-75	GE Healthcare	17-0050	
Sephadex-LH20	GE Healthcare	17-0090	
SKBR-3	ATCC	HTB-30	
SPDP	Proteochem	C1116	
Streamline-DEAE	GE Healthcare	17-0994	
Styryl Red FM 1-43	Life Technologies	T-3163	
TBS 10x	Bio-Rad	170-6435	
TCEP	Sigma-Aldrich	C4706-2G	
TLC, silica coated alumina sheets	Merck, Darmstadt, DE	60F254	
Trileucine (LLL)	Bachem	H-3915	
Triton X-114	Sigma-Aldrich	X114	
Tween®20	Sigma-Aldrich	P1379	
Vivaspin 20	VWR	14005-302	
DAPI	Vector Laboratories, Burlingame, CA		
Dexmedetomidine	Pfizer		
Atipamezole	Pfizer		
Carprofen	Pfizer		
Betadine	Foster and Smith, Wisconsin		