

Near Infrared Photoimmunotherapy for Mouse Models of Pleural Dissemination

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Materials

Name	Company	Catalog Number	Comments
0.25w/v% Trypsin-1mmol/l EDTA 4Na Solution with Phenol Red	Wako	209-016941	for cell culture
1mL syringe	TERUMO	SS-01T	for mice experiment
30G needle	Nipro	1907613	for mice experiment
BALB/cSlc-nu/nu	Japan SLC		
Collidal Blue Staining Kit	Invitrogen	LC6025	use for gel protein staining
Coomassie (bradford) Plus protein assay	Thermo Fisher Scientific Inc (Waltham, MA, USA)	PI-23200	for measuring the APC concentration
Dimethyl sulfoxide (DMSO)	Wako	043-07216	use for conjugation of IR700
D-Luciferin (potassium salt)	Cayman Chemical	14681	for bioluminescence imaging and DLIT
GraphPad Prism7	GraphPad software		for statistical analysis
Image Studio	Li-Cor Biosciences		for analyzing 700 nm fluorescent image
IRDye 700DX Ester Infrared Dye	LI-COR Bioscience (Lincoln, NE, USA)	929-70011	
isoflurane	Wako	095-06573	for mice anesthesia
IVIS Spectrum CT	PerkinElmer		for capturing bioluminescent image and DLIT
Living Image	PerkinElmer		for analyzing bioluminescent image and DLIT
Na ₂ HPO ₄	SIGMA-ALDRICH (St. Louis, MO, USA)	S9763	use for conjugation of IR700
NIR Laser	Changchun New Industries Optoelectronics Technology	MRL-III-690R	for NIR irradiation
Novex WedgeWell 4 to 20%, Tris-Glycine, 1.0 mm, Mini Protein Gel, 12 well	Invitrogen	XP04202BOX	use for SDS-PAGE
NuPAGE LDS Sample Buffer (x4)	Invitrogen	NP0007	use for SDS-PAGE
Optical power meter	Thorlabs (Newton, NJ, USA)	PM100	for measuring the output of the NIR laser

PBS(-)	Wako	166-23555	
Pearl Trilogy imaging system	Li-Cor Biosciences		for capturing 700 nm fluorescent image
Penicilin-Streptomycin Solution (x100)	Wako	168-23191	for cell culture
Puromycin Dihydrochloride	ThermoFisher	A1113803	for luciferase transfection
RediFect Red-Fluc-Puromycin Lentiviral Particles	PerkinElmer	CLS960002	for luciferase transfection
RPMI-1640 with L-glutamine and Phenol Red	Wako	189-02025	for cell culture
Sephadex G25 column (PD-10)	GE Healthcare (Piscataway, NJ, USA)	17-0851-01	use for conjugation of IR700
UV-1900i	Shimadzu		for measuring the APC concentration