

Materials List for

Direct Detection of Isolevuglandins in Tissues using a D11 scFv-Alkaline Phosphatase Fusion Protein and Immunofluorescence

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Materials

Name	Company	Catalog Number	Comments
1 ml TALON HiTrap column (Cobalt-CMA)	Cytiva	28953766	
200 Proof Ethanol	Pharmco	111000200	
2xYT powder	MP Biomedicals	3012-032	
384-well, clear, flat-bottom polystyrene microplates	ThermoFisher (NUNC)	242757	
4-Nitrophenyl phosphate disodium salt hexahydrate (pNPP)	Carbosynth	EN08508	
5-Bromo-4-chloro-3-indoxyl phosphate, p-toluidine salt (BCIP)	Carbosynth	EB09335	
Ampicillin, sodium salt	Research Products International (RPI)	A40040	
Bovine Serum Albumin	RPI	A30075	
Chemically competent TG1 E. coli	Amid Biosciences	TG1-201	
Diethanolamine, >98%	Sigma-Aldrich	D8885	
EDTA	Sigma-Aldrich	ED	
Fluoromount-G	SouthernBiotech	0100-01	Mouting medium
Glucose	Research Products International (RPI)	G32045	
Glycerol	Sigma-Aldrich	G7893	
HistoClear	National Diagnostics	HS-200	Xylene alternative
Hoechst 33342	ThermoFisher	H3570	stock solution = 10 mg/mL
Hydrochloric acid (HCl), 30%, Macron Fine Chemicals	ThermoFisher	MK-2624-212	

Imidazole	Research Products International (RPI)	I52000	
MgCl ₂ (anhydrous)	Sigma-Aldrich	M8266	
Mouse Serum Albumin (MSA)	Sigma-Aldrich/Calbiochem	126674	
Nitroblue tetrazolium chloride (NBT)	Carbosynth	EN13587	
Potassium chloride (KCl)	Sigma-Aldrich	P4504	
Potassium phosphate, monobasic (KH ₂ PO ₄)	Sigma-Aldrich	P0662	
Pressure Cooker	Cuisinart	CPC-600	
Slide-a-Lyzer Dialysis cassettes, 10K MWCO, 3 ml	ThermoFisher	66380	
Sodium chloride (NaCl)	Research Products International (RPI)	S23020	
Sodium Citrate	Sigma-Aldrich	1064461000	
Sodium phosphate, dibasic (Na ₂ HPO ₄)	Research Products International (RPI)	S23100	
Sucrose	Research Products International (RPI)	S24065	
Tris base	Research Products International (RPI)	T60040	
Tris-buffered Saline	Boston Bio-Products		25mM Tris, 2.7mM KCl, 137 mM NaCl, pH 7.4
Tris-HCl	Research Products International (RPI)	T60050	
Tween20	Sigma-Aldrich	P9416	
Vector Red	Vector Labs	SK-5105	