

Materials List for:

Using High Content Imaging to Quantify Target Engagement in Adherent Cells

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Materials

Name	Company	Catalog Number	Comments
Phosphate-buffered saline (PBS)	Medicago	09-9400-100	
TrypLE Express	ThermoFisher Scientific	12604013	for detaching cells and subculturing
16% paraformaldehyde (PFA)	ThermoFisher Scientific	28908	fixative
Goat anti-rabbit IgG (H+L), Alexa Fluor 488 conjugated antibody	ThermoFisher Scientific	A11008	secondary antibody
HCS CellMask Red stain	ThermoFisher Scientific	H32712	Cytoplasm stain
NP-40	Sigma-Aldrich	56741	for permeabilization
Hoechst stain 33342	Sigma-Aldrich	B2261	nuclear stain
Dulbecco's modified Eagle's medium (DMEM) - high Glucose	Sigma-Aldrich	6429	cell culture media component
Heat-inactivated fetal bovine serum (FBS)	Sigma-Aldrich	F9665	cell culture media component
Penicillin-Streptomycin	Sigma-Aldrich	P4333	cell culture media component
Corning, breathable plate seal	Sigma-Aldrich	CLS3345	for compound incubation step
Rabbit anti-p38 antibody [E229]	Abcam	ab170099	primary antibody, LOT:GR305364-16
Falcon, Black 384-well clear bottom imaging plates	VWR	736-2044	imaging plates
Greiner, 384-well low volume polypropylene plates	VWR	784201	
Adhesive aluminum foil	VWR	30127790	
Peelable aluminium seal	Agilent	24210-001	for PlateLoc
LY2228820	Selleckchem	S1494	p38 α inhibitor
PH797804	Selleckchem	PH797804	p38 α inhibitor
BIRB796	Selleckchem	S1574	p38 α inhibitor
SB203580	Tocris	1202	p38 α inhibitor
AMG 548	Tocris	3920	p38 α inhibitor
RWJ 67657	Tocris	2999	p38 α inhibitor
L-Skepinone	CBCS compound collection		p38 α inhibitor
Bovine serum albumin (BSA)	Sigma-Aldrich	A7030	blocking agent
SDS (sodium dodecyl sulfate)	BDH	44244	used in antigen retrieval
Glycine	Sigma-Aldrich	G8898	used in antigen retrieval
A-431 cells	ATCC	ATC-CRL-1555	
Echo 550	Labcyte		For preparation of compound plates
Plate sealer	Agilent		PlateLoc

Bulk reagent dispenser	Thermo Scientific	5840300	Multidrop Combi
Automated liquid handling	Agilent		Bravo liquid handling platform; used for compound plate preparation
Plate washer	Tecan		Hydrospeed
Water bath	Julabo	TW12	
Thermocouple	VWR		Thermocouple traceable lab thermometer
High content imager	Molecular Devices		ImageXpress Micro XLS Widefield High-Content Analysis System