

Materials List for

High-Content Screening Assay for the Identification of Antibody-Dependent Cellular Cytotoxicity Modifying Compounds

Eliza Guti^{*1,2}, Ákos Máté Bede^{*1,3}, Csongor Váróczy^{*1,3}, Csaba Hegedús¹, Máté Á. Demény^{1,4}, László Virág^{1,4}

¹Department of Medical Chemistry, Faculty of Medicine, University of Debrecen ²Doctoral School of Molecular Medicine, University of Debrecen ³National Academy of Scientist Education, University of Debrecen ⁴ELKH-DE Cell Biology and Signaling Research Group

* These authors contributed equally

Corresponding Author

László Virág

lvirag@med.unideb.hu

Citation

Guti, E., Bede, Á.M., Váróczy, C., Hegedús, C., Demény, M.Á., Virág, L. High-Content Screening Assay for the Identification of Antibody-Dependent Cellular Cytotoxicity Modifying Compounds. *J. Vis. Exp.* (198), e64485, doi:10.3791/64485 (2023).

Date Published

August 18, 2023

DOI

10.3791/64485

URL

jove.com/video/64485

Materials

Name	Company	Catalog Number	Comments
5-fluorouracil	Applichem	A7686	in compound library
96-well Cell Carrier Ultra plate	PerkinElmer	LLC 6055302	
Betulin	Sigma	B9757	in compound library
CD16.176V.NK92 cells	Nankwest Inc.		
Cerulenin	ChemCruz	sc-396822	in compound library
Cisplatin	Santa Cruz Biotechnology	sc-200896	in compound library
Colchicine	Sigma	C9754	in compound library
Concanavalin-A	Calbiochem	234567	in compound library
Dexamethasone	Sigma	D4902	in compound library
DMEM/F-12 medium	Sigma	D8437	in JIMT-1 EGFP medium
DMSO	Sigma	D2650	in compound library
Etoposide	Sigma	E1383	E1383
Fetal bovine serum (FBS)	Biosera	FB-1090/500	JIMT-1 EGFP and NK medium
Fisetin	Sigma	F4043	in compound library
Freedom EVO liquid handling robot	TECAN		
Gallotannin	Fluka Chemical Corp.	16201	in compound library
Glutamine	Gibco	35,050–061	in NK medium
Harmony software	PerkinElmer		
Humanized anti-HER2 monoclonal antibody (Herzuma)	EGIS Pharmaceuticals, Budapest Hungary	N/A	
Humulin R (insulin)	Eli Lilly	HI0219	JIMT-1 EGFP medium
IL-2	Novartis Hungária Kft.	PHC0026	in NK medium
Isatin	Sigma	114618	in compound library
MEM Non-essential Amino Acids (MEM-NEAA)	Gibco	11,140–050	in NK medium

Na-pyruvate	Lonza	BE13-115E	in NK medium
Naringenin	Sigma	N5893	in compound library
NQDI-1	Sigma	SML0185	in compound library
Opera Phenix High-Content Analysis equipment	PerkinElmer		
Penicillin–streptomycin	Biosera	LM-A4118	JIMT-1 EGFP and NK medium
Pentoxifylline	Sigma	P1784	in compound library
Phosphate buffered saline (PBS)	Lonza	BE17-517Q	to wash the cells
Podophyllotoxin	Sigma	P4405	in compound library
Quercetin	Sigma	Q4951	in compound library
Tannic acid	Sigma	T8406	in compound library
Temozolomide	Sigma	T2577	in compound library
Trypan blue 0.4% solution	Sigma	T8154	for cell counting
Vincristine sulfate	Sigma	V0400000	in compound library
α-MEM	Sigma	M8042	in NK medium