

Materials List for

# Testing Targeted Therapies in Cancer using Structural DNA Alteration Analysis and Patient-Derived Xenografts

Piyan Zhang<sup>1</sup>, Irina V. Kovtun<sup>1,2</sup>

<sup>1</sup>Center for Individualized Medicine, Mayo Clinic <sup>2</sup>Department of Molecular Pharmacology and Experimental Therapeutics, Mayo Clinic

## Corresponding Author

Irina V. Kovtun  
ivkru@yahoo.com

## Citation

Zhang, P., Kovtun, I.V. Testing Targeted Therapies in Cancer using Structural DNA Alteration Analysis and Patient-Derived Xenografts. *J. Vis. Exp.* (), e60646, doi:10.3791/60646 (2020).

## Date Published

July 25, 2020

## DOI

10.3791/60646

## URL

jove.com/video/60646

## Materials

Name	Company	Catalog Number	Comments
3M Vetbond	3M, Co.	1469SB	
anti-AKT antibody	Cell Signaling Technologies, Inc.	9272	
Anti-GAPDH antibody(G-9)	Santa Cruz Biotech. Inc.	sc-365062	
Anti-MAPK antibody	Cell Signaling Technologies, Inc.	9926	
Anti-phospho-AKT antibody	Cell Signaling Technologies, Inc.	9271	
Anti-mTOR antibody	Cell Signaling Technologies, Inc.	2972	
Anti-Phospho-mTOR antibody	Cell Signaling Technologies, Inc.	2971	
Anti-Phospho-S6 antibody	Cell Signaling Technologies, Inc.	4858	
Anti-Rictor antibody	Cell Signaling Technologies, Inc.	2114	
Anti-S6 antibody	Cell Signaling Technologies, Inc.	2217	
Captisol	ChemScene, Inc.	cs-0731	
Carboplatin	NOVAPLUS, Inc.	61703-360-18	
DMEM	Mediatech, Inc.	10-013-CV	
Easy-A Hi-Fi PCR Cloning Enzyme	Agilent, Inc.	600404-51	
Lubricant	Cardinal Healthcare	82-280	
Matrigel	Corning, Inc.	356234	
McCoy's media	Mediatech, Inc.	10-050-CV	
MK-2206	ApexBio, Inc.	A3010	
MK-8669	ARIAD Pharmaceuticals, Inc.	AP23573	
Nair Sensitive Skin	Church & Dwight Co.	Nair Hair Remover Shower Power Sensitive	
NOD/SCID mice	Charles River, Inc.	NOD.CB17-Prkdcscid/NCrCrI	
Paclitaxel	NOVAPLUS, Inc.	55390-304-05	
PEG400	Millipore Sigma, Inc.	88440-250ML-F	
Perjeta	Genetech, Co.	Pertuzumab	
Rituximab	Genetech, Co.	Rituxan	
RPMI1640	Mediatech, Inc.	10-040-CV	
SCID mice	Harlan Laboratories, Inc.	C.B.-17/IcrHsd-PrkdcscidLystbg	

---

SLAx 13-6MHz linear transducer	FUJIFILM SonoSite, Inc	HFL38xp	
SonoSite S-series Ultrasound machine	FUJIFILM SonoSite, Inc	SonoSite SII	
Tween 80	Millipore Sigma, Inc.	P4780-100ML	