nature portfolio

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Reporting Summary

Nature Portfolio wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Portfolio policies, see our <u>Editorial Policies</u> and the <u>Editorial Policy Checklist</u>.

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For	all statistical an	alyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.		
n/a	Confirmed			
	The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement			
	A statement on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly			
	The statist	cical test(s) used AND whether they are one- or two-sided on tests should be described solely by name; describe more complex techniques in the Methods section.		
\boxtimes	A description of all covariates tested			
	A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons			
\boxtimes	A full description of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient AND variation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)			
	For null hypothesis testing, the test statistic (e.g. <i>F</i> , <i>t</i> , <i>r</i>) with confidence intervals, effect sizes, degrees of freedom and <i>P</i> value noted Give <i>P</i> values as exact values whenever suitable.			
\boxtimes	For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings			
\boxtimes	For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes			
\boxtimes	Estimates of effect sizes (e.g. Cohen's <i>d</i> , Pearson's <i>r</i>), indicating how they were calculated			
	'	Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.		
So	ftware and	d code		
Poli	cy information a	about <u>availability of computer code</u>		
Da	ata collection	No software was used		
Da	ata analysis	Prism 9 was used for statistical analysis		

Data

Policy information about availability of data

All manuscripts must include a data availability statement. This statement should provide the following information, where applicable:

For manuscripts utilizing custom algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors and reviewers. We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Portfolio guidelines for submitting code & software for further information.

- Accession codes, unique identifiers, or web links for publicly available datasets
- A description of any restrictions on data availability
- For clinical datasets or third party data, please ensure that the statement adheres to our $\underline{\text{policy}}$

All data generated or analyzed during this study are included in this published article and its supplementary information files. The Supplementary Information file contains all supplementary figures and the original uncropped Western blots. The source data behind all graphs in the manuscript are in the Supplementary Data file

Research inv	volving hu	man participants, their data, or biological material
Policy information	about studies v	vith

Antibodies

9E10 murine monoclonal IgG anti-myc tag, BioLegend cat. #626802 Antibodies used

HA.11 rabbit IgG anti-HA tag, BioLegend cat. #923502

Anti-pSmad2/3 rabbit IgG, Cell Signaling Technology cat. #8828

Anti-total (t) Smad2/3 murine IgG, Santa Cruz Biotechnology cat. #sc-133098 Anti-pAkt (phospho-Ser473) rabbit antibody, Cell Signaling Technology cat. #9271 Anti-pAkt (phospho-Thr308) rabbit antibody, Cell Signaling Technology cat. #9275

Anti-tAkt rabbit antibody, Cell Signaling Technology cat. #9272

Anti-pPI3K (phospho-PI3K p85 (Tyr458)/p55 (Tyr199) rabbit antibody, Cell Signaling Technology cat. #4228

Anti-tPI3K (total PI3K (p85)) rabbit antibody, Upstate Biotechnology cat. #06497

Anti-pErk1/2 (diphosphorylated Erk1/2) murine monoclonal antibody, Sigma-Aldrich, cat. #M8159

Anti-tErk1/2 rabbit antibody, Cell Signaling Technology cat. #4695S

Anti-beta actin mouse antibody, MP Biomedicals cat. #08691001

Normal goat gamma-globulin, Jackson ImmunoResearch Laboratories cat. #005-000-002

Alexa 488-goat IgG anti-rabbit IgG, Invitrogen-Molecular Probes cat. #R37116 Alexa 546-goat F(ab')2 anti-mouse IgG, Invitrogen-Molecular Probes cat. #A-11018 Alexa 488-goat F(ab')2 anti-rabbit F(ab')2, Invitrogen-Molecular Probes cat. #A-11070

Peroxidase-goat anti-mouse antibody, Jackson ImmunoResearch Laboratories cat. #115-035-062

Peroxidase-goat anti-rabbit antibody, Jackson ImmunoResearch Laboratories cat. #111-035-144

Validation

Authentication

All validations are on the web sites of the manufacturers and no new unvalidated antibodies were used.

Eukaryotic cell lines

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Cell line source(s) AML12 murine hepatocyte cell line, ATCC cat. #CRL-2254

> STR profiling and interspecies contamination test for AML12 cells was performed by the cell line authentication service from IDEXX (Kornwestheim, Germany) using the CellCheckTM Mouse system that includes 19 species-specific STR markers

Mycoplasma contamination

Cells were routinely tested for mycoplasma contamination by RT-PCR every 2 months and found negative.

Commonly misidentified lines (See ICLAC register)

No commonly misidentified cell lines were used.

Plants

Seed stocks	NA
Novel plant genotypes	NA
Authentication	NA