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Reporting Summary

Nature Research 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 Research policies, see our <u>Editorial Policies</u> and the <u>Editorial Policy Checklist</u>.

For all statistical analyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.

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n/a	Confirmed				
	The exact	The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement			
	A stateme	A statement on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly			
	The statistical test(s) used AND whether they are one- or two-sided Only common tests should be described solely by name; describe more complex techniques in the Methods section.				
\boxtimes	A description of all covariates tested				
\boxtimes	A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons				
	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 Bayesi	ian 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				
\square Estimates of effect sizes (e.g. Cohen's d , Pearson's r), indicating how they were calculated					
Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.					
Software and code					
Policy information about <u>availability of computer code</u>					
Da	ata collection	Mutations sets were retrieved from the International Cancer Genome Consortium (ICGC) Data Portal MALY-DE and CLLE-ES datasets. ADAR2 expression levels from each donor were obtained using the UCSC Xena web tool.			
Da	ata analysis	Open-access somatic mutations information from each mutation set was obtained by comparing each mutation set with the latest release of the Aggregated Somatic Mutation VCF file by the ICGC using custom python scripts.			

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 Research guidelines for submitting code & software for further information.

Data

Policy information about availability of data

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

- Accession codes, unique identifiers, or web links for publicly available datasets
- A list of figures that have associated raw data
- A description of any restrictions on data availability

All relevant data are included in the manuscript. Raw data will be provided upon request.

Field-spe	cific re	porting			
Please select the or	Please select the one below that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.				
X Life sciences	Ве	ehavioural & social sciences Ecological, evolutionary & environmental sciences			
For a reference copy of t	he document with a	all sections, see <u>nature.com/documents/nr-reporting-summary-flat.pdf</u>			
Life scier	ices stu	ıdy design			
All studies must dis	close on these	points even when the disclosure is negative.			
Sample size	No sample size calculation was performed				
Data exclusions	No data were ex	xcluded			
Replication	All replicas show	ved similar results and all the data derived from them have been included in the analysis.			
Randomization	This is was not required for our study				
Blinding	No blinding was	performed, as it is not required for our studies.			
Reporting for specific materials, systems and methods We require information from authors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, system or method listed is relevant to your study. If you are not sure if a list item applies to your research, read the appropriate section before selecting a response. Materials & experimental systems Methods					
Antibodies					
Antibodies used	All this information can be found in the supplemental material.				
Validation	Validation All antibodies were previously validated by using downregulated cells as controls				
Eukaryotic cell lines					
Policy information a	about <u>cell lines</u>				
Cell line source(s)	Cell line source(s) All cell lines were obtained from ACGT, with the exception of U118 and derivated cell lines, that were obtained and v previously by one of the authors, A. Gallo.				
Authentication	ication No cell lines were further authenticated.				

We test for mycoplasma infection routinely in the lab.

Mycoplasma contamination

Commonly misidentified lines (See <u>ICLAC</u> register)

None

Flow Cytometry

Plots

Confirm that:				
The axis labels state the marker and fluorochrome used (e.g. CD4-FITC).				
The axis scales are clearly visible. Include numbers along axes only for bottom left plot of group (a 'group' is an analysis of identical markers).				
All plots are contour plots with outliers or pseudocolor plots.				
A numerical value for num	ber of cells or percentage (with statistics) is provided.			
Methodology				
Sample preparation	All is detailed in the methods section			
Instrument	FACSCalibur (BD). ; FACSAriaTM			
Software	BD FACSDiva Software ModFit LT 3.0 software			
Cell population abundance	No post-sort was performed			
Gating strategy	None			
Tick this box to confirm tha	at a figure exemplifying the gating strategy is provided in the Supplementary Information.			