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Reporting Summary

X Life sciences

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 <u>Authors & Referees</u> and the <u>Editorial Policy Checklist</u>.

Statistics			
For all statistical analyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.			
/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 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.			
A description of all covariates tested			
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.			
For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings			
For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes			
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>			
Data collection Bionavigator software v.6.3.67.0 for kinase activity assay, R software for gene expression microarrays			
Data analysis FlowJo v10.1 software for flow cytometry data, GraphPad Prism 6 for qPCR data and other quantifications			
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/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 <u>availability of data</u> 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			
The datasets generated during and/or analyzed during the current study will be available in Gene Expression Omnibus (GEO) under the accession number GSE131133.			
Field-specific reporting 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.			

Ecological, evolutionary & environmental sciences

Life sciences study design

LITE SCIET	ices study design	
All studies must dis	close on these points even when the disclosure is negative.	
Sample size	For human material, maximum number of available samples was used for the experiments. For mouse samples, biometric planning was performed prior to ethical approval of the experiments	
Data exclusions	None	
Replication	All replication attempts were successful	
Randomization	Allocation of samples into groups was random	
Blinding	Investigators were not blinded to group allocations	
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Reportin	g for specific materials, systems and methods	
	on from authors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, sed 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 & exp	perimental systems Methods	
n/a Involved in th	e study n/a Involved in the study	
Antibodies	ChIP-seq	
Eukaryotic		
Palaeontolo		
	d other organisms	
Human res Clinical dat	earch participants	
Antibodies		
Antibodies used	All antibody details are described in the manuscript	
Validation	Available on manufacturers' websites	
Animals and	other organisms	
Policy information a	about studies involving animals; ARRIVE guidelines recommended for reporting animal research	
Laboratory anima	Details about the animals are provided in the manuscript	
Wild animals	N/A	
Field-collected sa	mples N/A	
Ethics oversight	Details are provided in the manuscript	
Note that full informa	tion on the approval of the study protocol must also be provided in the manuscript.	
Flow Cytome	etry etry	
Plots		
Confirm that:		
The axis labels	s state the marker and fluorochrome used (e.g. CD4-FITC).	
The axis scale	s are clearly visible. Include numbers along axes only for bottom left plot of group (a 'group' is an analysis of identical markers).	
X All plots are co	ontour plots with outliers or pseudocolor plots.	
A numerical value for number of cells or percentage (with statistics) is provided.		

Methodology

Sample preparation	Details provided in the manuscript	
Instrument	LSRFortessa (BD Biosciences)	
Software	FlowJo v10.1	
Cell population abundance	Details found in the manuscript	
Gating strategy	Details found in the manuscript	
Tick this box to confirm that a figure exemplifying the gating strategy is provided in the Supplementary Information.		