## nature research

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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>.

Statistics	
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 stateme	nt on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly
	ical 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.
A descript	ion of all covariates tested
A descript	ion of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons
A full desc	ription of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient tion (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)
	rpothesis 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 es as exact values whenever suitable.
For Bayesi	an analysis, information on the choice of priors and Markov chain Monte Carlo settings
For hierard	chical 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
ı	Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.
Software and	d code
Policy information a	about <u>availability of computer code</u>
Data collection	N/A

## Data

Data analysis

Policy information about <u>availability of data</u>

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 Research guidelines for submitting code & software for further information.

- Accession codes, unique identifiers, or web links for publicly available datasets
- A list of figures that have associated raw data  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left($
- A description of any restrictions on data availability

N/A

Field-spe	ecific re	porting		
		s the best fit for your research. If you are not sure, read the appropriate sections before making your selection.		
\tilde{\text{Life sciences}}	B	Behavioural & social sciences Ecological, evolutionary & environmental sciences		
For a reference copy of	the document with	all sections, see <u>nature.com/documents/nr-reporting-summary-flat.pdf</u>		
Life scier	nces stu	udy design		
All studies must dis	sclose on these	points even when the disclosure is negative.		
Sample size	Mouse studies	studies - sample sizes indicated for all experiments.		
Data exclusions	N/A			
Replication	As indicated in	ated in manuscript.		
Randomization	N/A			
Blinding	N/A			
Poportin	a for cr	accific materials, systems and methods		
<del></del>	<u> </u>	pecific materials, systems and methods		
		about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, your study. If you are not sure if a list item applies to your research, read the appropriate section before selecting a response.		
Materials & ex	perimental s	ystems Methods		
n/a Involved in th	ne study	n/a Involved in the study		
Antibodies		ChIP-seq		
Eukaryotic		Flow cytometry		
	logy and archaeo nd other organisn			
	search participan			
Clinical dat				
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Antibodies				
Antibodies used	As ind	icated in Methods.		
Validation	Positive controls as stated.			
Eukaryotic c	ell lines			
Policy information	about <u>cell lines</u>			
Cell line source(s	5)	ATCC		
Authentication		Sequencing		
Mycoplasma contamination		cell line tested negative		
Commonly misidentified lines (See ICLAC register)		only 4T1 cell line was used		
Animals and	l other org	ganisms		
Policy information	about <u>studies i</u>	nvolving animals; ARRIVE guidelines recommended for reporting animal research		

BALB/c

Laboratory animals

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Wild animals	N/A				
Field-collected samples	N/A				
Ethics oversight	City of Hope IACCUC				
lote that full information on t	te that full information on the approval of the study protocol must also be provided in the manuscript.				
Flow Cytometry					
Plots					
Confirm that:					
The axis labels state t	he marker and fluorochrome used (e.g. CD4-FITC).				
The axis scales are cle	arly visible. Include numbers along axes only for bottom left plot of group (a 'group' is an analysis of identical markers).				
All plots are contour p	plots with outliers or pseudocolor plots.				
A numerical value for	number of cells or percentage (with statistics) is provided.				
Лethodology					
Sample preparation	Cells were isolated from mice using standard methods as described.				
Instrument	BD Fortessa				
Software	FlowJo				
Cell population abundance	ce N/A				

Standard gating for lymphocytes, then T cells.

Tick this box to confirm that a figure exemplifying the gating strategy is provided in the Supplementary Information.

Gating strategy