

Corresponding author(s):	George Miller
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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 <u>Authors & Referees</u> and the <u>Editorial Policy Checklist</u>.

Statistics	
For all statistical analys	es, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.
n/a Confirmed	
☐ ☐ The exact sam	nple size $(n)$ for each experimental group/condition, given as a discrete number and unit of measurement
A statement of	on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly
The statistical Only common to	test(s) used AND whether they are one- or two-sided ests 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 descript  AND variation	ion of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)
For null hypot	thesis testing, the test statistic (e.g. $F$ , $t$ , $r$ ) with confidence intervals, effect sizes, degrees of freedom and $P$ value noted sexact values whenever suitable.
For Bayesian a	analysis, information on the choice of priors and Markov chain Monte Carlo settings
For hierarchic	al and complex designs, identification of the appropriate level for tests and full reporting of outcomes
Estimates of e	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 o	code
Policy information abo	ut <u>availability of computer code</u>
Data collection	No Software used for data collection
Data analysis	GraphPad Prism, FlowJo, and LEGENDplex
	om algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors/reviewers. deposition in a community repository (e.g. GitHub). See the Nature Research guidelines for submitting code & software for further information.
Data	
- Accession codes, un - A list of figures that	ut <u>availability of data</u> include a <u>data availability statement</u> . This statement should provide the following information, where applicable: ique identifiers, or web links for publicly available datasets have associated raw data restrictions on data availability
The datasets generated of	during and/or analysed during the current study are available from the corresponding author on reasonable request.
Field-speci	fic reporting
Please select the one b	elow that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.
✓ Life sciences	Behavioural & social sciences Ecological, evolutionary & environmental sciences

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		3/3/7 3/33/6/1		
All studies must dis	close on these	points even when the disclosure is negative.		
Sample size	Power analyse	s were done based on estimates		
Data exclusions	No exclusions			
Replication	All experiment	All experiments were repeated multiple times as indicated in each figure legend		
Randomization	No formal rand	formal randomization		
Blinding	Blinding was n	o relevant to this study		
-		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 & exp	perimental s	systems Methods		
n/a Involved in the	e study	n/a Involved in the study		
Antibodies	aall linas	ChIP-seq		
Eukaryotic		MRI-based neuroimaging		
	ову d other organisr			
	earch participar			
Clinical data				
Antibodies				
Antibodies used	S	See methods section		
Validation	S	See methods section		
Eukaryotic co	ell lines			
Policy information a	about <u>cell line</u> s	$\hat{\mathbf{z}}$		
Cell line source(s)	)	All cells used were generated by our group from endogenous tumors		
Authentication		All cells used were generated by our group from endogenous tumors		
Mycoplasma cont	tamination	Mycoplasma testing was performed within the past 4 months and was negative		
Commonly miside (See <u>ICLAC</u> register)		None		
Animals and	other or	ganisms		
Policy information about studies involving animals; ARRIVE guidelines recommended for reporting animal research				
Laboratory anima	See Methods			
Wild animals	N	lone		
Field-collected sa	mples None			
Ethics oversight	N	lone		

Note that full information on the approval of the study protocol must also be provided in the manuscript.

## Flow Cytometry

## Plots

Confirm that:
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- 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 number of cells or percentage (with statistics) is provided.

## Methodology

Sample preparation	See methods
Instrument	See methods
Software	See methods
Cell population abundance	See methods
Gating strategy	See methods and main figures

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