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>.

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101	ali statisticai ali	laryses, commit that the following items are present in the figure legend, table legend, main text, or Methods section.			
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.				
	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.				
\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				
\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	BD FACSDiva, CTL Immunospot. Software version numbers provided in MM text.			
Da	ata analysis	FlowJo, Prism, Excel, PESTLE. Software version numbers provided in MM text.			
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 data availability statement. 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

Provide your data availability statement here.

Field-spe	cific reporting				
Please select the o	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.				
\times Life sciences					
For a reference copy of t	he document with all sections, see <u>nature.com/documents/nr-reporting-summary-flat.pdf</u>				
Life scier	nces study design				
	close on these points even when the disclosure is negative.				
Sample size	See section 2.2 Vaccination, line numbers 327-330.				
·					
Data exclusions	No data excluded				
Replication	Where applicable the use of replicates is reported in the MM section.				
Randomization	See materials and methods section 2.1, lines 317 - 319.				
Blinding	Technicians performing animal procedures and necropsies, Pathologists preparing and analysing tissue sections and radiographers reading CT scans were blinded to treatment groups.				
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	Antibody supplier and conjugate information is provided in the MM section.				
Validation	All monoclonal antibodies were titrated to determined optimal dilutions for the assay to achieve optimal signal to noise.				
Animals and	other organisms				
Policy information	about studies involving animals; ARRIVE guidelines recommended for reporting animal research				
Laboratory anima	Lines 301 - 303 of the MM section state: Twenty-four male and female rhesus macaques (Macaca mulatta) of Indian origin aged				

Lines 305-307 state: Animal procedures and study designs were approved by the Establishment Animal Welfare and Ethical Review

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

Committee and authorised under a UK Home Office project licence.

N/A

N/A

Wild animals

Ethics oversight

Field-collected samples

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 number of cells or percentage (with statistics) is provided.

Methodology

Full method described in MM section	
Described in the MM section	
Described in the MM section	
nce N/A	
Gating method is described in the MM section and a full gating strategy figure is provided as supplementary data.	

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