# nature portfolio

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## **Reporting Summary**

Nature Portfolio 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 Portfolio policies, see our Editorial Policies and the Editorial Policy Checklist.

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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St	at	ıstı	CS

	i	
n/a	Cor	nfirmed
	X	The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement
	x	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
x		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)
	x	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 <i>Give P values as exact values whenever suitable.</i>
x		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 <i>d</i> , Pearson's <i>r</i> ), indicating how they were calculated
	1	Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.

#### Software and code

Policy information about availability of computer code

Data collection indicated in the manuscript and any codes will be available if invited for revision

Data analysis GEO and the code will be available on Github before revision

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 Portfolio <u>guidelines for submitting code & software</u> 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 description of any restrictions on data availability
- For clinical datasets or third party data, please ensure that the statement adheres to our policy

for publicly available datasets, identifiers are indicated in the manuscript. Some datasets are included in the supplemental tables. All other data will be deposited in public datasets if invited for revision

and sexual orientati		with <u>human participants or human data</u> . See also policy information about <u>sex, gender (identity/presentation),</u> hthnicity and racism.			
Reporting on sex and gender		Sex is indicated in the methods section or supplemental table 7			
Reporting on race, ethnicity, or other socially relevant groupings		Not applicable			
Population characte	eristics	Not applicable			
Recruitment		Patients are receiving treatment at the Charité Universitätsmedizin Berlin and enrolled by physicians prior to planned colonoscopies			
Ethics oversight		approved by the Charité Ethics Committee EA_046/23			
Note that full informat	tion on the appr	oval of the study protocol must also be provided in the manuscript.			
	o:t:				
Field-spe					
		s the best fit for your research. If you are not sure, read the appropriate sections before making your selection.			
Life sciences		Behavioural & social sciences			
For a reference copy of tr	ne document with	all sections, see <a href="mailto:nature.com/documents/nr-reporting-summary-flat.pdf">nature.com/documents/nr-reporting-summary-flat.pdf</a>			
Life scien	ices sti	udy design			
All studies must disc	close on these	points even when the disclosure is negative.			
Sample size	sample size was	s calculated based on pilot studies			
Data exclusions	NA				
Replication	Replication many experiments were performed (replicated) by 2 people in the lab				
Randomization	animals were randomly assigned to groups based on the last digit of their ID				
Blinding	part of data collection was performed by animal caretakers in a blinded manner. Indicated in legends.				
Reporting	g for sr	pecific materials, systems and methods			
We require information	on from authors	about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material,			
system or method liste	ed 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 s	ystems Methods			
n/a Involved in the	e study	n/a Involved in the study			
✓ Antibodies		X ChIP-seq			
Eukaryotic cell lines  Palaeontology and archaeology		Flow cytometry			
		—,—			
	d other organism -	15			
	a search of concer				
Dual use res	search of concer				
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Antibodies					
Antibodies used	these a	are already included in supplemental methods including suppliers			
Validation	antibodies used are standards in the field and/or were obtained from antibodypedia				

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Authentication

NA

Policy information about <u>cell</u> Cell line source(s)		d Sex and Gender in Research
Cell line source(s)	EL	A called with facing the Hillians
		4 cells - gift from Uta Höpken
Authentication		ot authenticated
Mycoplasma contamination	re	gular tests are performed at MDC
Commonly misidentified lir (See <u>ICLAC</u> register)	nes NA	A
Animals and other	resea	arch organisms
Policy information about <u>stud</u> <u>Research</u>	<u>dies invo</u>	olving animals; ARRIVE guidelines recommended for reporting animal research, and Sex and Gender in
Laboratory animals	already re	ported in the manuscript
Wild animals	none	
Reporting on sex	reported in the manuscript	
Field-collected samples	none	
Ethics oversight	animal eth	nics approval: G0067 /24 and G0175/23 and 0092/18 LAGESO Berlin
Clinical data		l of the study protocol must also be provided in the manuscript.
Policy information about <u>clin</u> All manuscripts should comply w		<u>ies</u> MJEg <u>uidelines for publication of clinical research</u> and a completed <u>CONSORT checklist</u> must be included with all submissions.
Clinical trial registration	not applica	able
Study protocol	not applicable	
Data collection r	not applicable	
Outcomes	Outcomes not applicable	
Plants		
Seed stocks	NA	
Novel plant genotypes	Novel plant genotypes NA	

### Flow Cytometry

The axis labels state the marker and fluorochrome used (e.g. CD4-FITC).

Confirm that:

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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.		
X A numerical value for number of cells or percentage (with statistics) is provided.		
Methodology		
Sample preparation	in the manuscript	
Instrument	in the manuscript	
Software	in the manuscript	
Cell population abundance	Not applicable	
Gating strategy	in the manuscript	