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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 Editorial Policies and the Editorial Policy Checklist.

Statistics

For	all st	atistical analyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.		
n/a	Confirmed			
	\boxtimes	The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement		
	\square	A statement on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly		
	\boxtimes	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.		
	\boxtimes	A description of all covariates tested		
	\boxtimes	A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons		
	\boxtimes	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)		
	\boxtimes	For null hypothesis testing, the test statistic (e.g. F, t, r) with confidence intervals, effect sizes, degrees of freedom and P value noted Give P 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		
\boxtimes		Estimates of effect sizes (e.g. Cohen's d, Pearson's r), indicating how they were calculated		
		Our web collection on statistics for biologists contains articles on many of the points above.		

Software and code

Policy information about availability of computer code

Data collection state that no software was used. Data analysis Provide a description of all commercial, open source and custom code used to analyse the data in this study, specifying the version used OR state that no software was used.

Provide a description of all commercial, open source and custom code used to collect the data in this study, specifying the version used OR

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

Source data from Figure 6 were generated using this protocol and were published in reference 12 and are available from the authors upon request, and provided as Supplementary Information.

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.

Life sciences

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 sciences study design

All studies must disclose on these points even when the disclosure is negative.

Sample size	In figure 6C, numbers of infected cells were calculated in six independent images per condition and each experiment was performed in triplicate (n=18 in total)
Data exclusions	No data were excluded
Replication	In figure 6C, numbers of infected cells were calculated in six independent images per condition and each experiment was performed in triplicate (n=18 in total)
Randomization	Not relevant to this study
Blinding	In figure 6C, the investigator was blinded to calculate the number of infected cells

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	
n/a Involved in the study	n/a Involved in the study	
Antibodies	ChIP-seq	
Eukaryotic cell lines	Flow cytometry	
Palaeontology and archaeology	MRI-based neuroimaging	
Animals and other organisms		
Human research participants		
🔀 📃 Clinical data		
Dual use research of concern		

Antibodies

Antibodies used	Rabbit anti-STAT1 polyclonal antibody (Cell Signaling Technology Cat# 9172, RRID:AB_2198300) Mouse anti-villin monoclonal antibody (Santa Cruz Biotechnology Cat# sc-373997, RRID:AB_10917911) Guinea pig anti-HuNoV polyclonal antibody Goat anti-guinea pig Alexa fluor-488 secondary antibody (Thermo #A-11073, RRID:AB_2534117)
Validation	Rabbit anti-STAT1 polyclonal antibody: for Western blotting, validated on the manufacturer's website Mouse anti-villin monoclonal antibody: for Western blotting, validated on the manufacturer's website Guinea pig anti-HuNoV polyclonal antibody: references 11-15 Goat anti-guinea pig Alexa fluor-488 secondary antibody: for intracellular staining, validated on the manufacturer's website

Eukaryotic cell lines

Policy information about <u>cell lines</u>	
Cell line source(s)	Human embryonic kidney 293FT cells (ATCC Cat# PTA-5077, RRID:CVCL_6911) L-WRN cells (ATCC Cat# CRL-3276, RRID:CVCL_DA06) HIEs: J2 jejunal lines obtained from the Digestive Disease Core at BCM
Authentication	The cell lines were purchased from ATCC or from the Digestive Disease Core at BCM via iLab with MTA
Mycoplasma contamination	All cell lines were tested negative

Commonly misidentified lines (See <u>ICLAC</u> register)

None