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Reporting Summary

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Statistics					
For all statistical analyse	es, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.				
n/a Confirmed	Confirmed				
The exact sam	ple size (n) for each experimental group/condition, given as a discrete number and unit of measurement				
A statement o	n 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	A description of all covariates tested				
A description	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 <i>Give P values as exact values whenever suitable.</i>				
For Bayesian a	nalysis, 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	ffect 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 c	ode				
Policy information abou	ut availability of computer code				
Data collection	The fluorescence value was collected with the Gen5 Software for the EpochMicroplate Spectrophotometer.				
Data analysis	The Prism 7 of GraphPad Software was used in the data analysis.				
	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, uniA list of figures that l	ut <u>availability of data</u> nclude a <u>data availability statement</u> . This statement should provide the following information, where applicable: que identifiers, or web links for publicly available datasets have associated raw data restrictions on data availability				
The data that support the findings of this study are available from the corresponding author upon 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				

For a reference copy of the document with all sections, see <u>nature.com/documents/nr-reporting-summary-flat.pdf</u>

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Life Seleti	ces stady acsign			
All studies must disc	ose on these points even when the disclosure is negative.			
Sample size	A total of 149 clinical field blood samples were examined in this study.			
Data exclusions	No data were excluded from the analysis.			
Replication	For each experiment, at least two independent repeats were performed.			
Randomization	on Not applicable.			
Blinding	Not applicable.			
We require information	g for specific materials, systems and methods n from authors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, d 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 & expe	erimental systems Methods			
n/a Involved in the study Antibodies ChIP-seq Eukaryotic cell lines Flow cytometry Palaeontology MRI-based neuroimaging Animals and other organisms Human research participants Clinical data				
Antibodies				
Antibodies used	Mouse Anti-digoxin antibody (bsm-0356M) and Goat Anti-mouse IgG antibody (bs-0296G) are from Biosynthesis Biotechnology Inc.			
Validation	The antibody bs-0296G has been referenced in 9 publications. https://www.biossusa.com/products/bs-0296g			
Animals and o	other organisms			
Policy information al	pout studies involving animals; ARRIVE guidelines recommended for reporting animal research			
Laboratory animals	tory animals This study did not involve laboratory animals.			
Wild animals	animals his study did not involve wild animals.			
Field-collected sam	Clinical samples used in this study were collected and treated in strict accordance with the standard operation for ASFV by World Organization for Animal Health. Samples were collected from a farm which experienced ASFV outbreak.			

All sample treatment was conducted in the African Swine Fever Regional Laboratory of China (Guangzhou). ASFV was inactivated

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

in BSL-3 laboratory, and virus DNA was prepared in BLS-2 laboratory.

Ethics oversight