

I. Data Presentation

- This manuscript meets the applicable requirements listed in Section I.
- This manuscript does not meet the applicable requirements listed in Section I; I have explained why in the text box provided on the submission form.

The following information is available in all relevant figure legends (or has been placed in the Materials and Methods section to avoid excessively long legends):

1. The exact sample size (n) for each experimental group/condition, given as a number, not a range;
2. A description of the sample collection allowing the reader to understand whether the samples represent technical or biological replicates (including how many animals, litters, cultures, etc.);
3. A statement of how many times the experiment shown was replicated in the laboratory;
4. Definitions of statistical methods and measures:
 - a. Data from small samples ($n < 5$), for which descriptive statistics are not appropriate, have been plotted as individual points.
 - b. Complex techniques are described in the Materials and Methods section (common tests, such as t test, simple χ^2 tests, Wilcoxon and Mann-Whitney tests can be unambiguously identified by name only).
 - c. Tests are identified as one-sided or two-sided.
 - d. There are adjustments for multiple comparisons.
 - e. Statistical test results, e.g., P values, are given.
 - f. "Center values" are defined as median or mean.
 - g. Error bars are defined as s.d. or s.e.m. or c.i.

II. Methodology and Statistics

- This manuscript meets the applicable requirements listed in Section II.
- This manuscript does not meet the applicable requirements listed in Section II; I have explained why in the text box provided on the submission form.

Where appropriate, the following information is included in the Materials and Methods section:

1. How the sample size was chosen to ensure adequate power to detect a pre-specified effect size;
2. Inclusion/exclusion criteria if samples or animals were excluded from the analysis;
3. Description of a method of randomization to determine how samples/animals were allocated to experimental groups and processed;

4. The extent of blinding if the investigator was blinded to the group allocation during the experiment and/or when assessing the outcome;
5. Justification for statistical tests that address the following questions (as appropriate):
 - a. Do the data meet the assumptions of the tests (e.g., normal distribution)?
 - b. Is there an estimate of variation within each group of data?
 - c. Is the variance similar between the groups that are being statistically compared?

III. Reagents and Model Systems

- This manuscript meets the applicable requirements listed in Section III.
- This manuscript does not meet the applicable requirements listed in Section III; I have explained why in the text box provided on the submission form.

1. Methods are described sufficiently so that others can reproduce the experiments.
2. The sources and methods of use of all reagents are explained.
3. Protocols and information about reagents are available to others upon request.
4. Novel materials and reagents reported in this manuscript will be available for distribution to other researchers once published.
5. Methods for validation of antibody specificity in the specific experimental context used in this study (e.g., immunoblotting, immunofluorescence, immuno-affinity antigen isolation) and information about the source, derivation, etc., of antibodies used in this study are provided in the Materials and Methods section.
6. Full sequence information is provided for all recombinant DNA constructs and synthetic oligonucleotides used in the study, and whether the sequences were verified by sequencing is noted.
7. Cell line identity:
 - a. The use of any cell lines that are listed in the database of commonly misidentified cell lines maintained by ICLAC (also available in NCBI Biosample) is justified in the Materials and Methods section.
 - b. The following information is included in the Materials and Methods section:
 - i. The source of the cell lines
 - ii. The method of cell line authentication
 - iii. The frequency of testing for mycoplasma contamination
8. Relevant information about animals (vertebrate and invertebrate) including species, strain, sex, age, etc., is included in the Materials and Methods section.
9. Relevant information about microbes including strain numbers, strain background, complete genotype, source, etc., is included in the Materials and Methods section and/or in figure legends.
10. For experiments involving live vertebrates, a statement of compliance with ethical regulations and the identity of the committee(s) approving the experiments are included.

11. For human subjects, the committee(s) that approved the study protocol is identified in the Materials and Methods section.

IV. Data Accessibility

- This manuscript meets the applicable requirements listed in Section IV.
- This manuscript does not meet the applicable requirements listed in Section IV; I have explained why in the text box provided on the submission form.

1. Accession codes are provided for deposited data. Data deposition in a public repository is mandatory for:

- a. Protein, DNA, and RNA sequences
- b. Macromolecular structures
- c. Crystallographic data for small molecules
- d. Microarray data

2. If computer code was used to generate results that are central to the paper's conclusions, a statement is included in the Materials and Methods section under "Code availability" to indicate whether and how the code can be accessed. Information on programming language (as necessary) and any restrictions on availability are provided.