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Reporting Checklist

This checklist is used to ensure good reporting standards and to improve the reproducibility of published results. **Please respond completely to all questions relevant to your manuscript.** For more information, please read the journal's Guide to Authors.

☐ Check here to confirm that the following information is available in the Material & Methods section:

- the **exact sample size** (n) for each experimental group/condition, given as a number, not a range;
- a description of the sample collection allowing the reader to understand whether the samples represent technical or biological replicates (including how many animals, litters, culture, etc.);
- a statement of how many times the experiment shown was replicated in the laboratory;
- **definitions of statistical methods and measures**: (For small sample sizes (n<5) descriptive statistics are not appropriate, instead plot individual data points)
 - very common tests, such as t-test, simple χ^2 tests, Wilcoxon and Mann-Whitney tests, can be unambiguously identified by name only, but more complex techniques should be described in the methods section;
 - o are tests one-sided or two-sided?
 - o are there adjustments for multiple comparisons?
 - o statistical test results, e.g., P values;
 - o definition of 'center values' as median or mean;
 - o definition of error bars as s.d. or s.e.m. or c.i.

Please ensure that the answers to the following questions are reported **in the manuscript itself.** We encourage you to include a specific subsection in the methods section for statistics, reagents and animal models. Below, provide the page number or section and paragraph number.

Statistics and general methods

1. How was the sample size chosen to ensure adequate power to detect a pre-specified effect size? (Give section/paragraph or page #)

For animal studies, include a statement about sample size estimate even if no statistical methods were used.

- Describe inclusion/exclusion criteria if samples or animals were excluded from the analysis. Were the criteria pre-established? (Give section/paragraph or page #)
- If a method of randomization was used to determine how samples/animals were allocated to experimental groups and processed, describe it. (Give section/paragraph or page #)

For animal studies, include a statement about randomization even if no randomization was used.

Reported in the methods section
Reported in the methods section
Not available
Reported in the methods section
Reported in the methods section

Reported in section/paragraph or page #

4.	If the investigator was blinded to the group allocation during the experiment and/or when assessing the outcome, state the extent of blinding. (Give section/paragraph or page #)	Reported in the methods section
For animal studies, include a statement about blinding even if no blinding was done.		Reported in the methods section
5.	For every figure, are statistical tests justified as appropriate?	Reported in the methods section
Do the data meet the assumptions of the tests (e.g., normal distribution)?		Reported in the methods section
Is there an estimate of variation within each group of data?		Reported in the methods section
	ne variance similar between the groups that are being statistically compared? (Give section/paragraph or page #)	Reported in the methods section

Reagents

- 6. Report the source of antibodies (vendor and catalog number)
- 7. Identify the source of cell lines and report if they were recently authenticated (e.g., by STR profiling) and tested for mycoplasma contamination

Reported in section/paragraph or page

Reported in Section/ paragraph or page #			
Reported in the methods section			
Reported in the methods section			

Animal Models

- 8. Report species, strain, sex and age of animals
- For experiments involving live vertebrates, include a statement of compliance with ethical regulations and identify the committee(s) approving the experiments.

Reported in section/paragraph or page

Reported in the methods section

Reported in the methods section

10. We recommend consulting the ARRIVE guidelines (<u>PLoS Biol. 8(6)</u>, e1000412,2010) to ensure that other relevant aspects of animal studies are adequately reported.

Hui	man subjects	Reported in section/paragraph or page #
11.	Identify the committee(s) approving the study protocol.	Not available
12.	Include a statement confirming that informed consent was obtained from all subjects.	Not available
13.	For publication of patient photos, include a statement confirming that consent to publish was obtained.	Not available
14.	Report the clinical trial registration number (at <u>ClinicalTrials.gov</u> or equivalent).	Not available
15.	For phase II and III randomized controlled trials, p CONSORT checklist with your submission.	please refer to the CONSORT statement and submit the
16.	For tumor marker prognostic studies, we recomm	mend that you follow the <u>REMARK reporting guidelines</u> .
Dat	ta deposition	Reported in section/paragraph or page #
	Provide accession codes 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	Not available
det	position is strongly recommended for many other a ails on our data policy are available in the Guide to	datasets for which structured public repositories exist; more
		ositories such as <u>Figshare</u> and <u>Dryad</u> . We encourage

restrictions on availability.