Data Collection and Presentation Checklist:

Ethical Statements (if applicable):		
Humans	Complete and upload the Ethics Declaration Statement you received with your decision letter.	☒
Animals	Provide species, sex, strain, age, source and husbandry conditions.	☐
	Note if the study was blinded or not.	☐
	Provide a statement confirming the research was approved by the Institutional Animal Care and Use Committee.	☐
	Complete and upload the ARRIVE Compliance Questionnaire. Visit ARRIVE for more information.	☐
Reagents and Biological Materials:		
	Include manufacture name, catalog number (and lot number for antibodies) for all reagents used (including fluorochromes and stains).	☐
	Cell lines: provide source, derivation and authentication method.	☐
Images		
General	Do not introduce or remove any features in your images. Leave any blemishes.	☐
	If any adjustments to contrast, balance or brightness are made, they must be applied uniformly across the entire image. Any nonlinear adjustments must be disclosed in the legend.	☐
	Check that images are not pixelated when reasonably magnified. Images must be at 300 dpi. TIFF images are encouraged. Avoid jpegs or using PowerPoint as this will compress your images.	☐
	Scale bars must be included.	☐
	If splicing images, the borders must be marked and noted in the legend.	☐
Microscopy (include the following)	Camera make and model.	☐
	Microscope make and model.	☐
	Objective magnification, type and numerical aperture. Magnification must be mentioned in figure legend.	☐

	Fluorochromes and stains. They should also be mentioned in the legend.	☐
	Acquisition software.	☐
	Show all individual channels in grey scale and merged image in color (all at the same intensity).	☐
Western Blots	Westerns should <u>not</u> be modified for contrast, the entire tonal range should be present.	☐
	Include at least two molecular weight markers, one above and one below your band of interest.	☐
	If a blot is spliced together, you must mark the border and explain this in the legend. Splicing across different blots is <u>not</u> allowed.	☐
	It is best practice to normalize protein levels against total protein, not house-keeping proteins.	☐
	Post-translationally modified proteins (PTMs) must use total protein for normalization.	☐
	Provide raw blots as supplementary data. These may be combined as a single Word doc. Blots must be accurately labeled to match figures in the main doc. Include the molecular weight ladder.	☐
RNAi, Gene Expression, Microarrays	At least two different siRNAs targeting different gene areas must be used.	☐
	At least two different control siRNAs must be used.	☐
	Gene expression studies cannot be presented alone without providing evidence that the changes in levels have downstream functional consequences.	☐
	Microarray data must include: ○ The raw data for each hybridization. ○ Experimental Factors and values. ○ Experimental design. ○ Data processing protocols (e.g., normalization method).	☐
Cell culture	At least three appropriate cell lines should be used to confirm findings. If there are fewer, add a statement explaining why only 1 or 2 were used.	☐