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Reporting Summary

x Life sciences

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Statistics				
For all statistical analysis	es, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.			
n/a Confirmed				
The exact sam	e exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement			
A statement o	A statement on 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.			
X A description of all covariates tested				
A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons				
 X	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)			
	hesis testing, the test statistic (e.g. F , t , r) with confidence intervals, effect sizes, degrees of freedom and P value noted exact values whenever suitable.			
For Bayesian analysis, 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 <u>availability of computer code</u>			
Data collection	Detailed information is available in the manuscript.			
Data analysis	Detailed information is available in the manuscript.			
	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, uni - A list of figures that l	nt <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			
· ·	uploaded to ProteomicsDB. Additionally, all raw mass spectrometry files and MaxQuant result files are available via PRIDE and ne accession code PXD013615. Our previously published proteomics data on the CRC65 cell line panel has the accession code PXD005354.			
Field-speci	fic 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.

Ecological, evolutionary & environmental sciences

Behavioural & social sciences

Life sciences study design				
		points even when the disclosure is negative.		
Sample size	n/a			
Data exclusions		is worth noting that we excluded CoCM-1 cells from all analyses because of a consistently lower amount of identified proteins and p-sites supplementary Figure 1E).		
Replication	n/a			
Randomization	n/a			
Blinding	n/a			
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 Antibodies Methods n/a Involved in the study Flow cytometry MRI-based neuroimaging MRI-based neuroimaging Antibodies Antibodies				
Antibodies used Validation	PGR antibody (#PI633C01, clone 16, DCS) PGR_pS162 antibody (#GTX80351-50, Lot Nr. 821604961, Biozol) AK1 antibody (#OAAB17548, Aviva Systems Biology, USA) GAPDH antibody (#sc-365062, Santa Cruz Biotechnology, USA) PI633C01 is an antibody used routinely in clinical practice. GTX80351-50 was tested in Humans. It cross-reacts with phosphoserine 163 in mouse progesterone receptor. OAAB17548 was validated in our manuscript by western blot. sc-365062 was extensively validated elsewhere (see e.g. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6629652/)			
<u>Eukaryotic c</u>	ell lines			
Policy information about <u>cell lines</u>				
Cell line source(s	5)	See Supplementary Table 1.		
Authentication		None of the cell lines were authenticated.		
Mycoplasma contamination		Cell lines were not tested for mycoplasma contamination.		
Commonly misidentified lines (See ICLAC register)		See Supplementary Table 1. The NCI60 cell line panel is well known and there is more information available on MDA-MB-435, U251, SNB-19 and NCI/ADR-RES here: https://dtp.cancer.gov/discovery_development/nci-60/cell_list.htm		