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**Sample-size estimation**

* You should state whether an appropriate sample size was computed when the study was being designed
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* If no explicit power analysis was used, you should describe how you decided what sample (replicate) size (number) to use

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No explicit power analysis was used to determine the sample size for each experiment. Sample size was based on empiric considerations taking into account both robustness of the respective assay and the experimental challenge of acquiring the data.

**Replicates**

* You should report how often each experiment was performed
* You should include a definition of biological versus technical replication
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All experiments represented in the figures were performed at least in biological triplicates on independent days with the following exceptions: the experiment shown in Figure 1D was performed once with the reported experimental conditions, the experiment shown in Figure 3B was performed twice, the experiment shown in Figure 5C represents a fourth biological replicate of the experiment presented in Figures 5A and B, the experiment shown in Figure 7 was performed using the same substrate and enzyme preparations in technical triplicates on the same day, and the data shown in Figure 7–figure supplement 1 represents a single replicate. Note that while cells were induced and harvested on separate days, the StrepTactin pull-downs and MS sample preparation for Figures 5A and B were performed on the same day to minimize technical variability.

**Statistical reporting**

* Statistical analysis methods should be described and justified
* Raw data should be presented in figures whenever informative to do so (typically when N per group is less than 10)
* For each experiment, you should identify the statistical tests used, exact values of N, definitions of center, methods of multiple test correction, and dispersion and precision measures (e.g., mean, median, SD, SEM, confidence intervals; and, for the major substantive results, a measure of effect size (e.g., Pearson's r, Cohen's d)
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Where applicable, information on the statistical tests used, number of replicates (N), definitions of center, dispersion and precision measures can be found in the respective figure legends (Figure 2B, D and F, Figure 6, Figure 2–figure supplement 1, and Figure 4–figure supplement 2D and E). P values were calculated with Prism.

For MS experiments, data analysis is described in the Materials and methods, *Affinity Purification Mass Spectrometry Analysis* and p values are reported in Supplementary file 2-2.

(For large datasets, or papers with a very large number of statistical tests, you may upload a single table file with tests, Ns, etc., with reference to sections in the manuscript.)

**Group allocation**

* Indicate how samples were allocated into experimental groups (in the case of clinical studies, please specify allocation to treatment method); if randomization was used, please also state if restricted randomization was applied
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* Where provided, these should be in the most useful format, and they can be uploaded as “Source data” files linked to a main figure or table
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The raw mass spectrometry data and corresponding search results used for Figure 5B, and Supplementary file 2 have been deposited to the ProteomeXchange Consortium via the PRIDE partner repository with the dataset identifier PXD021864.