

Resource Summary Report

Generated by T1D on Aug 3, 2026

PhosphoSitePlus: Protein Modification Site

RRID:SCR_001837

Type: Tool

Proper Citation

PhosphoSitePlus: Protein Modification Site (RRID:SCR_001837)

Resource Information

URL: <http://www.phosphosite.org>

Proper Citation: PhosphoSitePlus: Protein Modification Site (RRID:SCR_001837)

Description: A freely accessible on-line systems biology resource devoted to all aspects of protein modification, as well as other post-translational modifications. It provides valuable and unique tools for both cell biologists and mass spectroscopists. PhosphoSite is a human- and mouse-centric database. It includes features such as: viewing the locations of modified residues on molecular models; browsing and searching MS2 records by disease, tissue, and cell line; submitting lists of peptides to identify previously reported genes; searching by sub-cellular localization, treatment, tissues, cell types, cell lines and diseases, and protein types and protein domains; searching for experimentally-verified kinase substrates and viewing preferred substrate motifs; and viewing MS2 spectra for peptides and sites not previously published.

Abbreviations: PSP

Synonyms: PhosphoSitePlus, PhosphoSite

Resource Type: knowledge environment resource, data or information resource, portal

Defining Citation: [PMID:22135298](#)

Keywords: portal, mass spectroscopist, molecular model, mouse, post translational, subcellular localization, protein modification, post-translational modification, protein phosphorylation, protein structure, protein function, ubiquitinylation, acetylation, cellular component, cell type, visualization, data repository, bio.tools, FASEB list

Funding: NCI ;
NIAAA R44 AA014848;
NIGMS R43 GM65768

Availability: Free, Freely available

Resource Name: PhosphoSitePlus: Protein Modification Site

Resource ID: SCR_001837

Alternate IDs: biotools:phosphositeplus, nif-0000-10399

Alternate URLs: <https://bio.tools/phosphositeplus>

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Record Creation Time: 20220129T080209+0000

Record Last Update: 20260803T040309+0000

Ratings and Alerts

No rating or validation information has been found for PhosphoSitePlus: Protein Modification Site.

No alerts have been found for PhosphoSitePlus: Protein Modification Site.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 903 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Serafino G, et al. (2026) Mechanical Cues Regulate Cargo Sorting and Export at the Golgi. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(1), e06241.

Cai Z, et al. (2026) The Cullin3-Ring E3 ubiquitin ligase complex and USP14 regulate spastin-mediated microtubule severing and promotion of neurite outgrowth. Neural regeneration research, 21(4), 1641.

Wang W, et al. (2026) Feedback regulation between histone H3 lysine 18 lactylation and TROP2-mediated glycolysis drives metastatic progression of colorectal cancer. Clinical and translational medicine, 16(1), e70562.

Stastna M, et al. (2025) Post-translational modifications of proteins in cardiovascular diseases examined by proteomic approaches. The FEBS journal, 292(1), 28.

Romero JC, et al. (2025) Loss of CD98HC phosphorylation by ATM impairs antiporter trafficking and drives glutamate toxicity in Ataxia telangiectasia. Nature communications, 16(1), 5109.

Park IY, et al. (2025) A novel cardiomyopathy phenotype linked to a CHD7 missense variant. Scientific reports, 15(1), 19429.

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- Miao Y, et al. (2025) Histone Acetyltransferase MOF-Mediated AURKB K215 Acetylation Drives Breast Cancer Cell Proliferation via c-MYC Stabilization. *Cells*, 14(14).
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- Chen H, et al. (2025) The SIK3-N783Y mutation is associated with the human natural short sleep trait. *Proceedings of the National Academy of Sciences of the United States of America*, 122(19), e2500356122.
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- Segura-Roman A, et al. (2025) Autophagosomes anchor an AKAP11-dependent regulatory checkpoint that shapes neuronal PKA signaling. *The EMBO journal*, 44(11), 3150.
- Xu S, et al. (2025) Bending the boundaries: the many facets of endophilin-As from membrane dynamics to disease. *Cellular and molecular life sciences : CMLS*, 82(1), 339.
- Basilone NT, et al. (2025) Canonical and alternate mechanisms that regulate ubiquitylation by the E3 ligase parkin. *Biochemical Society transactions*, 53(4), 1053.
- Sharma N, et al. (2025) Phosphoregulation of RAD51AP1 function in homology-directed repair. *bioRxiv : the preprint server for biology*.
- Shen Y, et al. (2025) GC-derived exosomal circMAN1A2 promotes cancer progression and suppresses T-cell antitumour immunity by inhibiting FBXW11-mediated SFPQ degradation. *Journal of experimental & clinical cancer research : CR*, 44(1), 24.
- Hu Y, et al. (2025) Cross-Species Epitope Sequence Analysis for Discovery of Existing Antibodies Useful for Phospho-Specific Protein Detection in Model Species. *International journal of molecular sciences*, 26(2).