

Lysine residues are subject to a wide range of modifications. Acyl group transfer from the following metabolic intermediates: acetyl-, succinyl-, malonyl-, glutaryl-, butyryl-, and crotonyl-CoA all neutralize the positive charge of lysine and confer structural alterations affecting substrate protein function.

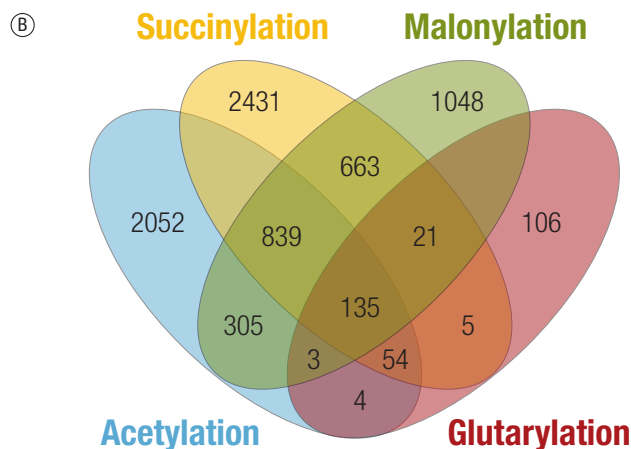
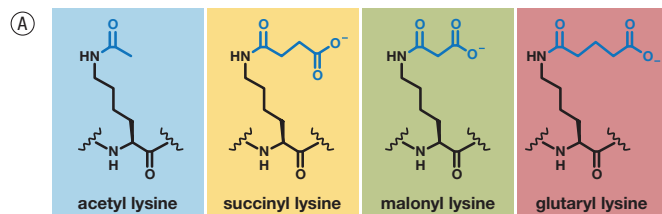
AcylScan™, PTMScan® technology for acylation proteomics, uses proprietary acetyl- (Ac-K), malonyl- (Mal-K), propionyl- (Prop-K), glutaryl- (Glut-K), or succinyl-lysine (Succ-K) antibodies to enrich their respective acyl-containing peptides from trypsin digested samples prior to LC-MS/MS analysis.

Feature and Benefits

- AcylScan methods allow quantitative profiling of thousands of acetylation, glutarylation, malonylation, propionylation, and succinylation events by using antibodies with exquisite specificity and sensitivity.
- PTMScan technology can be applied to many biological systems and species to encompass diverse research interests.
- Experienced CST scientists provide technical support throughout the PTMScan workflow to facilitate research progress.

Products and Services

- PTMScan® Acetyl-Lysine Motif [Ac-K] Kit #13416 (10 assays)
- PTMScan® Pilot Acetyl-Lysine Motif [Ac-K] Kit #14499 (3 assays)
- PTMScan® Glutaryl-Lysine [Glut-K] Kit #26101
- PTMScan® Malonyl-Lysine (Mal-K) Kit #93872
- PTMScan® Propionyl-Lysine (Prop-K) Kit #17848
- PTMScan® Succinyl-Lysine Motif [Succ-K] Kit #13764
- AcetylScan® Proteomics Service
- GlutarylScan™ Proteomics Service
- MalonylScan™ Proteomics Service
- PropionylScan™ Proteomics Service
- SuccinylScan™ Proteomics Service



Profiling lysine acylation in liver peptides from wild type and Sirt5 knockout mice: Diagram of the four acylation PTM types analyzed (A). The degree of overlap of sites identified using the four acylation-specific antibodies (B).

For additional information on acylation proteomics visit: www.cellsignal.com/acylscan

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