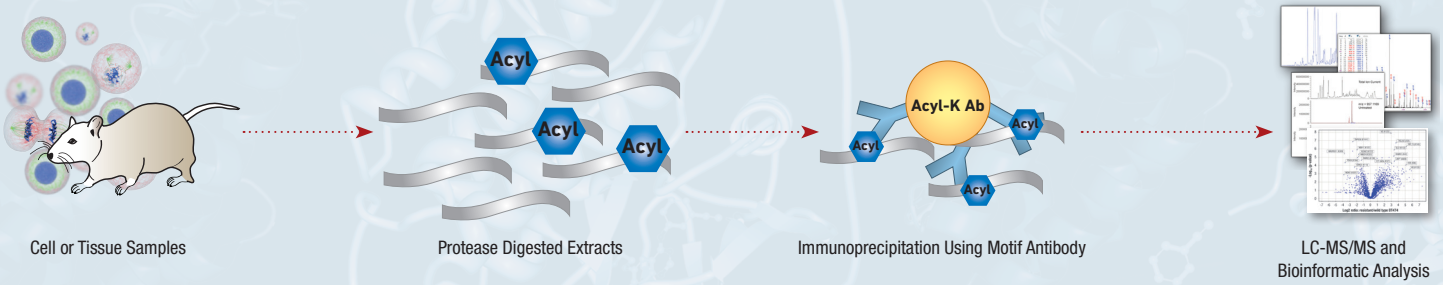
AcylScan™

# Acylation Proteomics

FROM CELL SIGNALING TECHNOLOGY




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

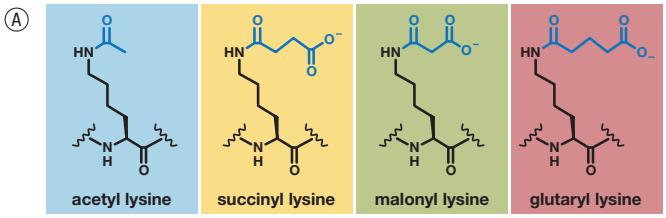
AcylScan™, PTMScan® technology for acylation proteomics, uses proprietary acetyl- (Ac-K), malonyl- (Mal-K), propionyl- (Prop-K), glutaryl- (Glut-K) , or succinyl-lysine (Succ-K) antibodies to enrich their respective acyl-containing peptides from trypsin digested samples prior to LC-MS/MS analysis.

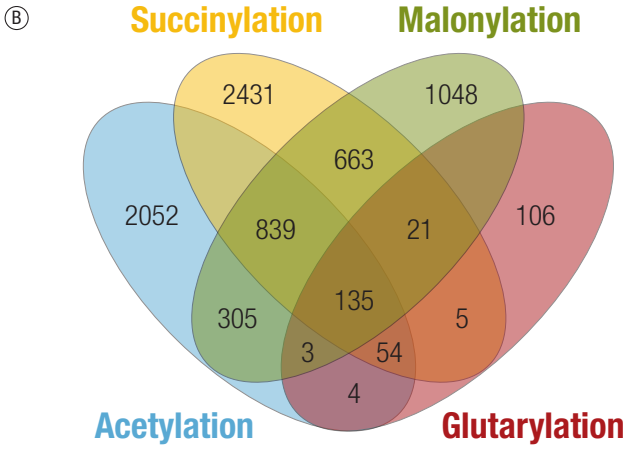
## Feature and Benefits

- 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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Cell Signaling TECHNOLOGY®

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