

Store at
-20°C

#12148

PTMScan® Lys-C Digested Control Peptides I

1 vial

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For Research Use Only. Not For Use In Diagnostic Procedures.

Description: The PTMScan® Lys-C Digested Control Peptides I are produced from mouse liver tissue that has been lysed, reduced and alkylated, digested with Lys-C, purified, and lyophilized. This is intended to be used as a control for PTMScan® kits that contain unmodified lysine or arginine residues within the antibody motif.

Background: PTMScan® Technology employs a proprietary methodology from Cell Signaling Technology (CST) for peptide enrichment by immunoprecipitation using a specific bead-conjugated antibody in conjunction with liquid chromatography (LC) tandem mass spectrometry (MS/MS) for quantitative profiling of post-translational modification (PTM) sites in cellular proteins. These include phosphorylation (PhosphoScan®), ubiquitination (UbiScan®), acetylation (AcetylScan®), and methylation (MethylScan®), among others. PTMScan® Technology enables researchers to isolate, identify, and quantitate large numbers of post-translationally modified cellular peptides with a high degree of specificity and sensitivity, providing a global overview of PTMs in cell and tissue samples without preconceived biases about where these modified sites occur (1).

Background References:

(1) Rush, J. et al. (2005) *Nat Biotechnol* 23, 94-101.

Directions for Use: PTMScan® Lys-C Digested Control Peptides I are supplied as lyophilized powder. Centrifuge the tube containing the lyophilized peptide in order to collect all material to be dissolved. Add 1.4 ml PTMScan® IAP Buffer (1X) and follow the PTMScan® kit protocol from the Immunoaffinity Purification (IAP) step using the entire vial of reconstituted peptides.

Storage: Store lyophilized peptides at -20°C. In lyophilized form, the peptides are stable for 24 months.

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended complementary products.

Thank you for your recent purchase. If you would like to provide a review visit www.cellsignal.com/comments.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.