

PTMScan HS: Simplified PTM Proteomics Workflow



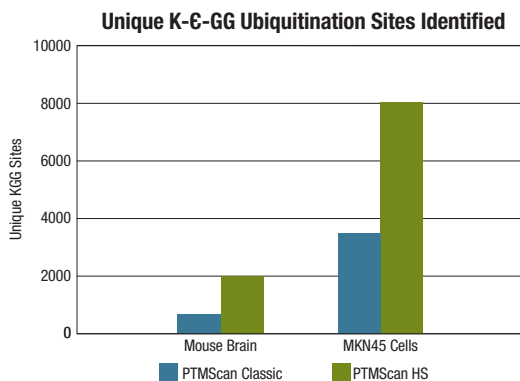
NEW PTMSCAN® HS KITS: HIGH SENSITIVITY, SPECIFICITY, AND SIMPLICITY

Identify and quantify more post-translational modification sites using less sample, with lower background.

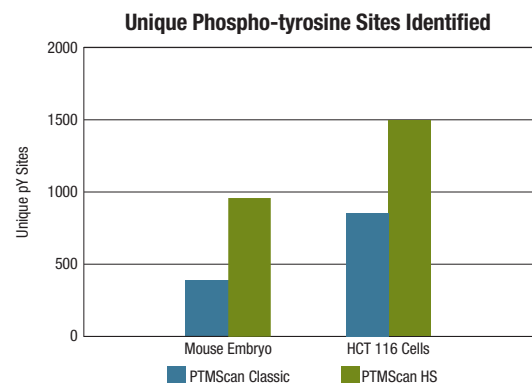
- **Less Sample Required:** Efficient digestion and high sensitivity immunocapture enables reduced sample requirements, as compared to classic kits.
- **Cleaner PTM Peptides:** Optimized capture and washing methods ensure that only highly enriched PTM peptides are eluted with no contaminating antibody present.
- **Automation Friendly:** Sample enrichment using magnetic beads is amenable to popular automation platforms, making PTMScan HS kits an ideal choice for automating PTM sample preparation.
- **Proven Method:** Hundreds of publications demonstrate the utility and stability of PTMScan immuno-enrichment technology.

HS STANDS FOR HIGH SENSITIVITY

More PTM sites identified



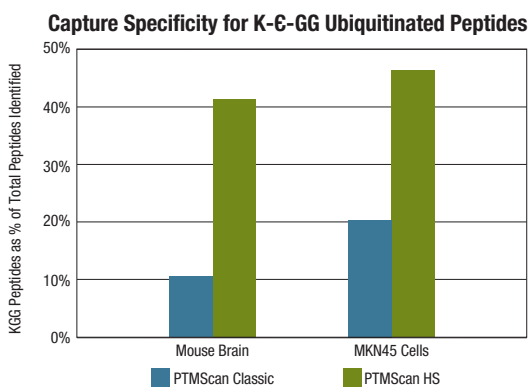
Comparison of unique K-ε-GG ubiquitin modification sites identified between PTMScan Classic (blue) and PTMScan HS (green) enrichment methods, across two different sample types: mouse brain (left), and human MKN45 gastric cancer cells (right). Cell count and wet weight tissue inputs were identical, producing 1mg of extracted protein by PTMScan HS protocol. The results indicate that the PTMScan HS method identifies significantly more unique modification sites across different sample types.



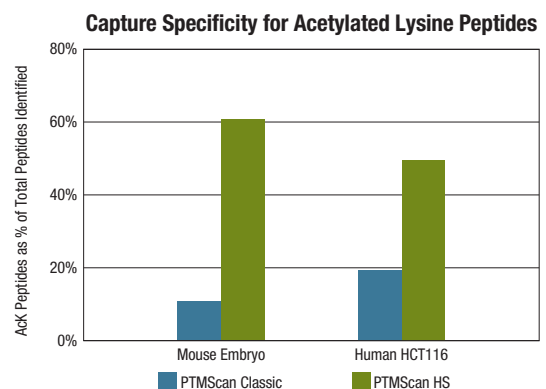
Comparison of unique phospho-tyrosine modification sites identified between PTMScan Classic (blue) and PTMScan HS (green) enrichment methods, across two different sample types: mouse embryo (left), and HCT 116 cells (right). Protein was extracted from 3mg of HCT116 cells and 5mg of mouse embryo (wet weight) using the PTMScan HS protocol. The results indicate that the PTMScan HS method identifies significantly more unique modification sites across different sample types.

HS STANDS FOR HIGH SPECIFICITY

Improved capture and washing reduces nonspecific binding



Comparison of identification of unique K-ε-GG ubiquitin remnant-modified peptides as a percentage of total peptides identified for PTMScan Classic (blue) and PTMScan HS (green) enrichment methods, across two different sample types: mouse brain (left), and human MKN45 (right). Data illustrates that the PTMScan HS method results in higher percentages of modified peptides vs. unmodified peptides, demonstrating improved specificity for the enrichment of target peptides.

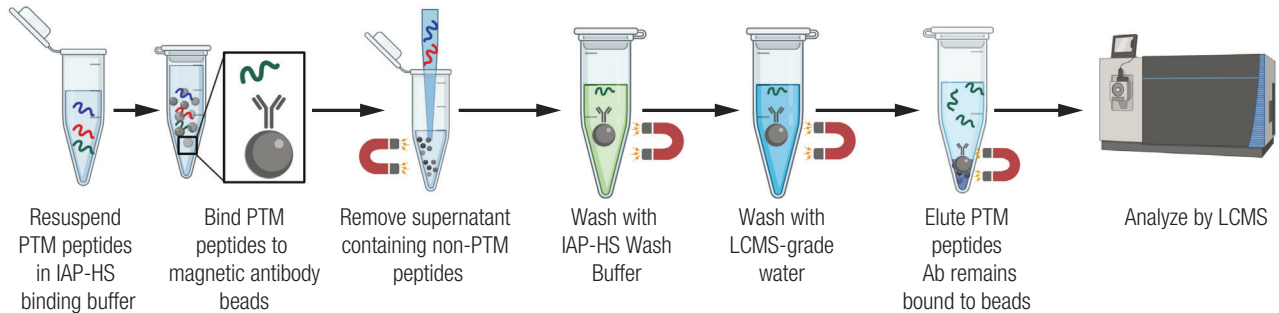


Comparison of identification of unique acetylated lysine remnant-modified peptides as a percentage of total peptides identified for PTMScan Classic (blue) and PTMScan HS (green) enrichment methods, across two different sample types: mouse embryo (left), and human HCT116 cancer cells (right). Data illustrates that the PTMScan HS method results in higher percentages of modified peptides vs. unmodified peptides, demonstrating improved specificity for enrichment of target peptides.

PTMScan HS: Simplified PTM Proteomics Workflow

HS STANDS FOR HIGH SIMPLICITY

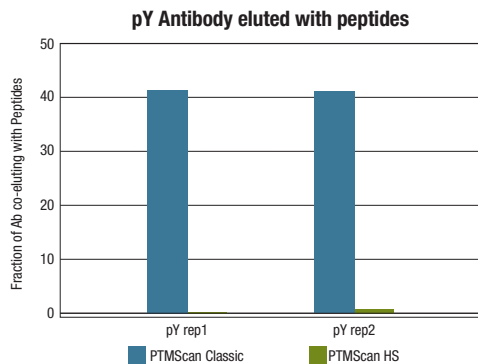
Peptide Enrichment and LC-MS Analysis using PTMScan HS Enrichment Kits



Overview of PTMScan HS method on Day 3, showing peptide enrichment and analysis. The digestion of proteins over days 1 and 2 is not shown.

CLEANER SAMPLES

The PTMScan HS kits produce highly enriched peptide samples without contaminating antibodies, providing you with highly specific, sensitive, and actionable data.



PTMScan HS antibodies do not elute off the beads. Peptides from MKN45 were enriched with either the Classic antibody on agarose beads or with the HS antibody on magnetic beads. A Bradford assay measured the intact antibody in the elution. The HS immunoprecipitation elutions have essentially undetectable amounts of antibody while the Classic IPs release >40% of the antibody used.

AVAILABLE PTM TARGETS

ENRICHMENT KIT	PTM
59322 PTMScan HS Ubiquitin/SUMO Remnant Motif (K-E-GG) Kit	Ubiquitin SUMO
38572 PTMScan HS Phospho-Tyrosine (P-Tyr-1000) Kit	Phosphorylation
46784 PTMScan HS Acetyl-Lysine Motif (Ac-K) Kit	Acetylation
60724 PTMScan HS Succinyl-Lysine Motif (Succ-K) Kit	Succinylation

CST PROTEOMICS SERVICES

Would you like to perform proteomics experiments, but you don't have access to mass spectrometry equipment? Don't worry! We offer full proteomics analytical services too.

The Cell Signaling Technology® (CST®) Services team can perform qualitative and quantitative profiling of proteins and post-translational modifications in your samples, assisting you from project planning to delivery of a comprehensive data package.

Liste des produits

Nous contacter

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Service technique :
 Réactifs : 01 34 60 60 24 - tech@ozyme.fr
 Instrumentation : 01 30 85 92 88 - instrum@ozyme.fr

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