

Simplified PTM Proteomics with Less Background

NEW HIGH SENSITIVITY, HIGH SPECIFICITY PTMSCAN® HS KITS

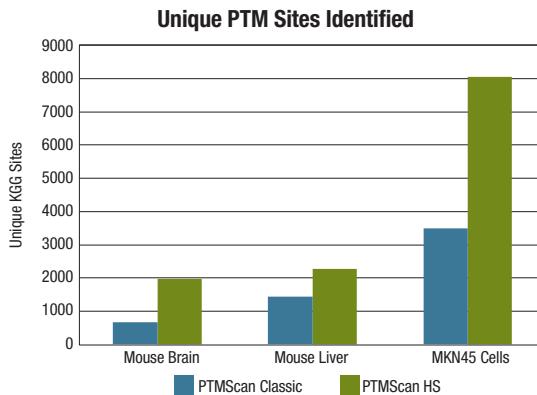
Identify and quantify more PTM sites with lower background, requiring less sample

- Less Material Required:** Efficient digestion and high sensitivity immunocapture reduce sample requirements, as compared to classic kits.
- Clean Peptides with No Contaminating Antibody:** New capture and washing methods ensure that only highly enriched PTM peptides are eluted and analyzed

- Faster, Simpler Protocol:** New, streamlined protocol, allowing researchers to identify thousands of low-abundance post-translational modification sites (PTMs)
- Proven Method:** Hundreds of publications demonstrate the utility and stability of PTMScan immuno-enrichment technology
- High-quality Reagents:** From the leader in validated PTM antibodies for over 20 years

HS STANDS FOR HIGH SENSITIVITY

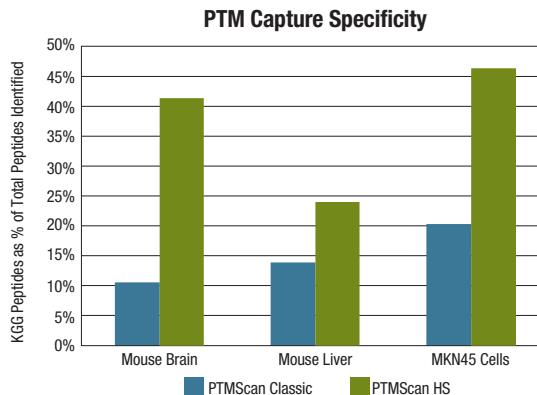
Significantly more PTM sites identified



Comparison of unique KGG ubiquitin remnant modification sites identified between PTMScan classic (blue) and PTMScan HS (green) digestion and enrichment methods, across three different sample types: mouse brain (left), mouse liver (middle) and human MKN45 gastric cancer cells (right). Cell count and wet weight tissue inputs were identical, producing 1 mg extracted protein by 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 SELECTIVITY

Improved capture and washing reduces nonspecific binding



Comparison of identification of unique KGG ubiquitin remnant-modified peptides as a percentage of total peptides identified for PTMScan classic (blue) and PTMScan HS (green) digestion and enrichment methods, across three different sample types: mouse brain (left), mouse liver (middle), and human MKN45 gastric 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.

Available PTM Targets

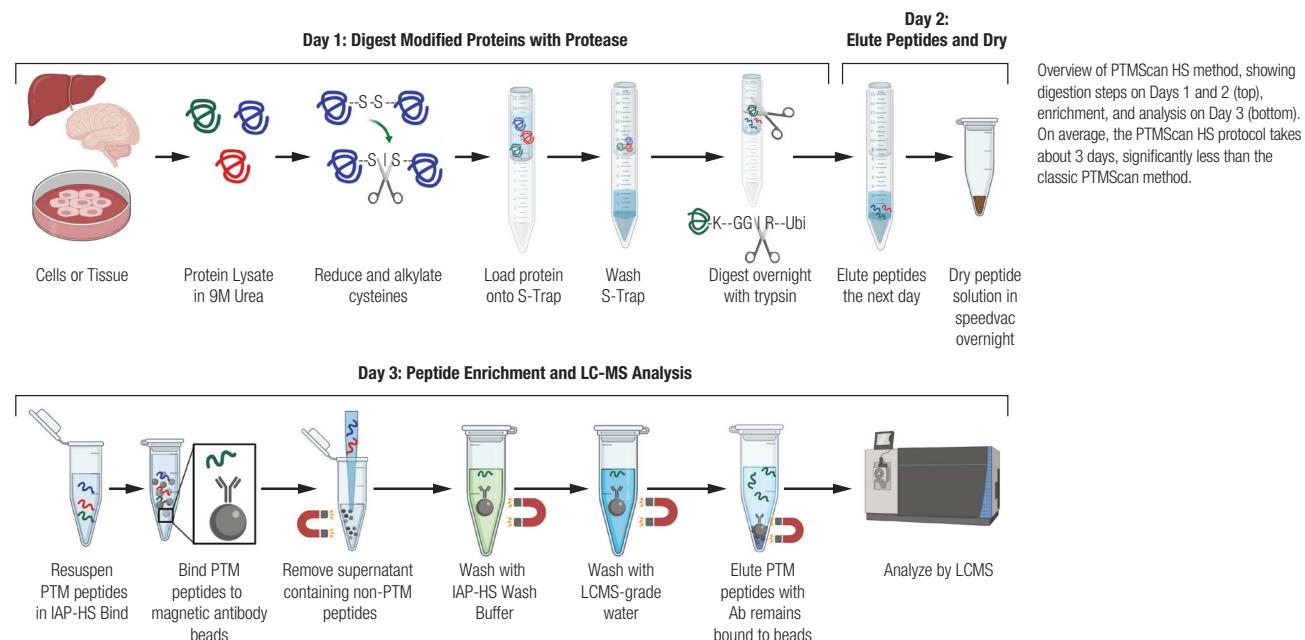
ENRICHMENT KIT	PTM	DIGESTION PROTEASE	TARGET SEQUENCES
59322 PTMScan HS Ubiquitin/SUMO Remnant Motif (K-ε- GG) Kit	Ubiquitin	Trypsin	Substrate-K- <u>GG</u> IR-Ubiquitin
	SUMO	WALP	Substrate-K- <u>GG</u> IT-SUMO

Try PTMScan HS kits now:
www.cst-science.com/HS-kit

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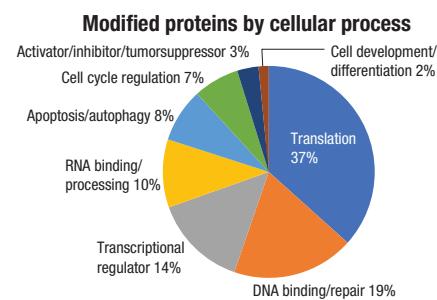
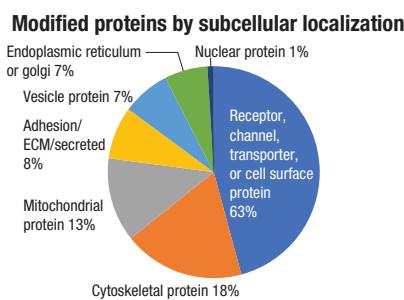
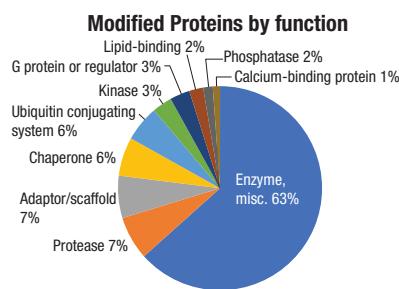
HS STANDS FOR HIGH SIMPLICITY AND HIGH SPEED

Easy protocol for sample prep by scientists at any experience level, to complete in much less time than classic PTMScan.



HS STANDS FOR HIGH SUCCESS

Only highly enriched PTM peptides are eluted and analyzed, which **keeps your instruments running at peak performance**, and results in highly specific, sensitive, and **actionable data**.



The proportion of proteins identified from PTMScan HS assay on mouse liver, categorized by function (left), subcellular localization (middle), and cellular process (right).