

CUT&RUN

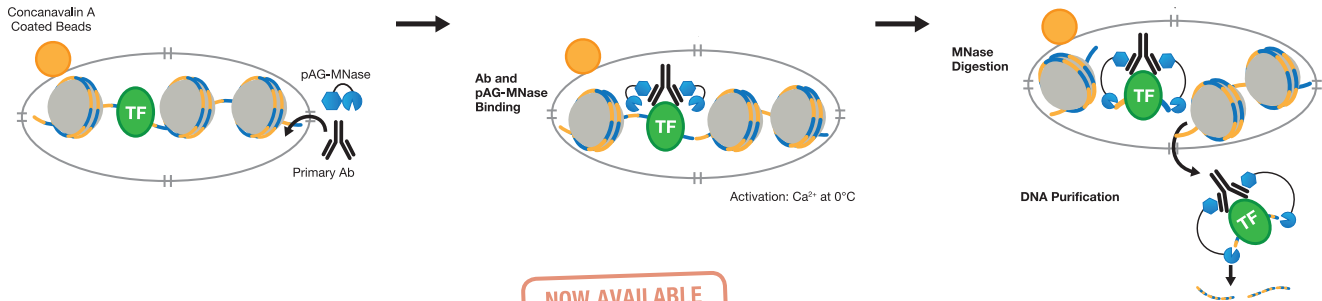
New Chromatin Profiling Application

Cell Signaling
TECHNOLOGY®
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What is CUT&RUN?

CUT&RUN stands for **C**leavage **U**nder **T**arget & **R**elease **U**sing **N**uclease. It is an in vivo method that uses a target-specific primary antibody and a Protein A-Protein G-Micrococcal Nuclease (pAG-MNase) to isolate specific protein-DNA complexes^{1,2,3}.

References: 1. Skene P.J. et al. (2018) Nat. Protoc. 13(5), 1006-1019. 2. Meers M.P. et al. (2019) BioRxiv 1, 569129. 3. Skene P.J. and Henikoff S. (2017) Elife 6, e21865.



CUT&RUN Products

Cell Signaling Technology offers two flexible solutions. Try our new kit with your favorite target antibody. The kit contains the pAG-MNase, all the necessary buffers and reagents, and a detailed protocol. Or just order the pAG-MNase and Spike-In DNA if you prefer.

NOW AVAILABLE
AT MEDSTORE

25%
OFF

CUT&RUN Assay Kit

#86652S

\$755

\$566.23

CUT&RUN pAG-MNase and Spike-In DNA

#40366S

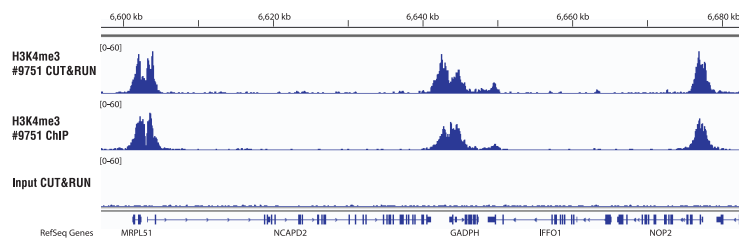
\$429

\$321.74

The Benefits of CUT&RUN

| | |
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| Low sample requirement | Only 100K cells needed |
| Fast time to results | 1-2 days from cell to DNA |
| Sequencing cost savings | Only 3-5 million high-quality reads required |
| Target versatility | Generate sequencing and/or qPCR data for histones, histone modifications, transcription factors, and cofactors |
| Antibody versatility | Compatible with rabbit and mouse antibodies |
| Reproducible results | Spike-In control DNA to normalize signal between samples |
| Avoid "cross-linking" artifacts | An in vivo method performed using native chromatin |

The CUT&RUN Assay Kit from CST only requires 100,000 cells and works as well as ChIP-seq



CUT&RUN and ChIP assays were performed with HCT 116 cells (1x10⁵ for CUT&RUN, 4x10⁶ cells for ChIP) and Tri-Methyl-Histone H3 (Lys4) (C42D8) Rabbit mAb #9751, using the CUT&RUN Assay Kit #86652 or the SimpleChIP® Plus Enzymatic Chromatin IP Kit (Magnetic Beads) #9005. DNA Libraries were prepared using SimpleChIP® ChIP-seq DNA Library Prep Kit for Illumina® #56795. Comparison of enrichment at the GAPDH gene, a known target of H3K4me3. The input track is from the CUT&RUN input sample.

*TERMS & CONDITIONS: Offer valid in Canada only. Expires March 31st, 2020. Discount is eligible for products listed on this flyer. Promotion not valid for cash or cash equivalent towards purchase(s). No substitutions. Offer may not be applied to existing, pending or prior orders. Cannot be combined with any other promotion or discount. One or more of these products are covered by patents, trademarks and/or copyrights owned or controlled by New England Biolabs, Inc. For more information, please email us at orders.ca@neb.com

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