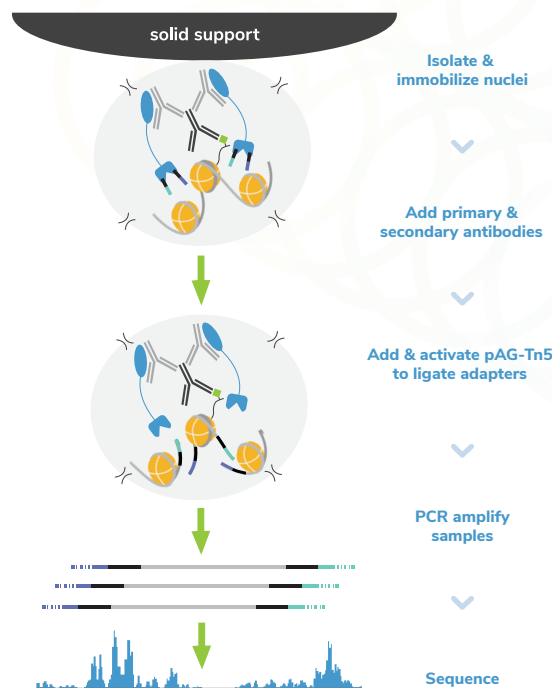


# CUTANA™ CUT&Tag Assays for chromatin mapping with low cell numbers

Cleavage Under Targets and Tagmentation (CUT&Tag) is an ultra-sensitive chromatin mapping technology that is ideal for histone post-translational modifications (PTMs) and select transcription factors (TFs).

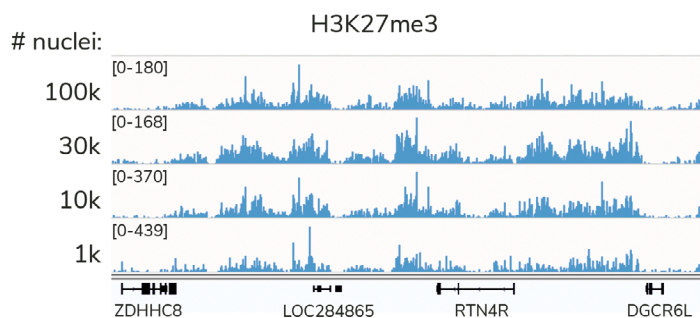
How does CUT&Tag compare to ChIP-seq?

- Streamlined - no fragmentation, IP, or library prep
- High signal-to-noise and low background
- Fewer cells needed
- Rapid 2-day workflow
- Reduced sequencing costs



## Reliable data at low cell numbers

FEATURES	ChIP-seq	CUT&RUN	CUT&Tag
Cells Required	>1 million	5,000 - 500,000	1,000 - 100,000
Compatible Targets	Histone PTMs, TFs	Histone PTMs, TFs & Chromatin Remodelers	Histone PTMs & Select TFs
Sequencing Depth (Reads)	>30 Million	3-8 Million	3-8 Million
Signal-to-Noise	Low	High	High

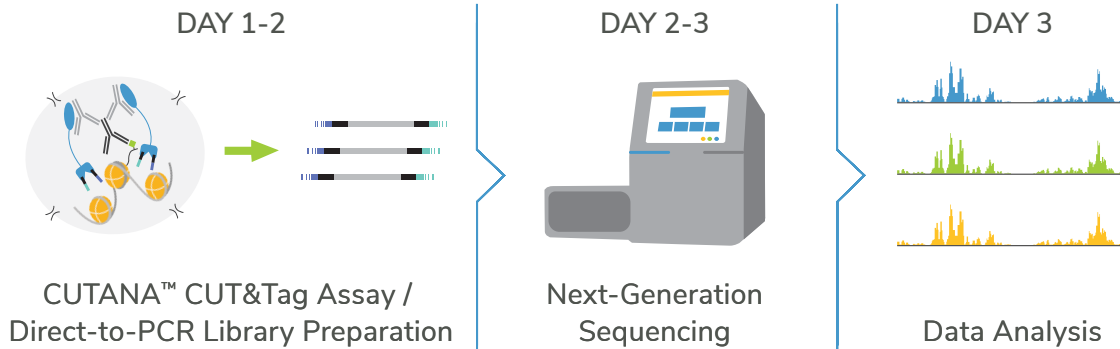


**FIGURE 1** CUT&Tag was performed using an H3K27me3 antibody and decreasing amounts of K562 nuclei as input.

## Advantages of CUTANA™ CUT&Tag

- Reliable data down to 1,000 cells
- Exclusive single-tube workflow
- User-friendly protocol with FAQs and troubleshooting tips
- Spike-in controls available to maximize experimental success

# Go from cells to sequencing in just a few days



## PROTOCOL

Learn more about EpiCypher's optimized CUTANA™ Direct-to-PCR CUT&Tag Protocol.

[CUTANA CUT&Tag Protocol](#)

### ADVANTAGES

- Cells to DNA in one tube
- Use as few as 1,000 cells
- Includes modifications for cells, nuclei, cross-linking, fresh and frozen samples
- Perform assay in <2 days
- Recommended for histone PTMs
- For chromatin-associated protein targets, contact [info@epicypher.com](mailto:info@epicypher.com) for recommendations



## PRODUCTS

### Get started with our CUT&Tag Core Reagents Bundle

50 reactions / Cat. No. 14-1101

Includes the essential reagents and controls you need for CUT&Tag assays!

#### ENZYMES & REAGENTS

**pAG-Tn5**  
50 / 250 reactions  
Cat. No. 15-1017  
Cat. No. 15-1117

**ConA Conjugated Paramagnetic Beads**  
50 / 250 reactions  
Cat. No. 21-1401  
Cat. No. 21-1411

**Non-Hot Start 2X PCR Master Mix**  
50 reactions  
Cat. No. 15-1018

#### ANTIBODIES

**Rabbit IgG Negative Control**  
Cat. No. 13-0042

**H3K4me3**  
Cat. No. 13-0041

**Anti-Rabbit Secondary Antibody**  
50 / 250 reactions  
Cat. No. 13-0047  
Cat. No. 13-1047

**Anti-Mouse Secondary Antibody**  
50 / 250 reactions  
Cat. No. 13-0048  
Cat. No. 13-1048

#### SPIKE-IN CONTROLS

**SNAP-CUTANA™ K-MetStat Panel**  
Cat. No. 19-1002

#### TOOLS

**8-strip 0.2 mL PCR Tubes**  
120 strips  
Cat. No. 10-0009

**0.2 mL Magnetic Separation Rack**  
Cat. No. 10-0008

**1.5 mL Magnetic Separation Rack**  
Cat. No. 10-0012

## RESOURCES

### PROTOCOLS

- Visit [epicypher.com/protocols](http://epicypher.com/protocols) for:
- CUT&Tag protocol
  - SNAP-CUTANA™ Spike-in User Guide
  - Cross-linking protocol
  - Protocols are routinely updated!

### LITERATURE

- Single cell analysis - Kaya-Okur et al. Nat. Comm. 2019 (PMID : 31036827)
- Automated CUT&Tag - Janssens et al. Nat. Genet. 2021 (PMID : 34663924)
- Chromatin accessibility using CUT&Tag - Henikoff et al. eLife. 2020 (PMID : 33191916)

### BLOGS

Check out our recent CUT&Tag blogs at [epicypher.com/resources/blog](http://epicypher.com/resources/blog)



epicypher.com

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