

CUT&Tag-IT® Assay Kits

Rapid and robust genome-wide analysis of histone marks at lower sequencing depths

CUT&Tag (Cleavage Under Targets and Tagmentation) utilizes a protein A (pA) Tn5 chimera (pA-Tn5) and a mouse or rabbit primary antibody to a histone or histone mark of interest to tether the pA-Tn5. This directs the Tn5 activity to tagment the DNA around the target of interest genome-wide, without any extra NGS library preparation steps, to reveal the genetic sequences of those sites of interest. CUT&Tag requires much less input material and sequencing read depths than ChIP-Seq, and can be performed in 1-2 days.



CUT&Tag-IT™ Kit - Tissue

Profile histone marks with rabbit or mouse antibodies from 0.5 to 10 mg of tissue

CUT&Tag-IT™ Kit - Cells

Rapid and robust genome-wide analysis of histone marks at lower sequencing depths

CUT&Tag-IT® R-loop Assay Kit

Genome-wide profiling of DNA-RNA Hybrid R-loops.

CUT&RUN Assay Kit

Lower cell input than traditional ChIP

CUT&RUN (Cleavage Under Targets & Release Using Nuclease) is an epigenetic method used to investigate the genome-wide distribution of various chromatin-associated proteins and their modifications. CUT&RUN is a derivative of chromatin immunocleavage (ChIC). CUT&RUN is similar to [chromatin immunoprecipitation \(ChIP\)](#), in that it utilizes an antibody to target chromatin-associated marks and proteins, but requires less sample material and less sequencing depths than ChIP.



ChIP-IT High Sensitivity®

Our best-selling ChIP kits and the go-to all-purpose ChIP kit for most sample types and targets



Other Kits:

ChIP-IT® Express Kits
Low Cell ChIP
Low Cell ChIP Optimization Module
High Throughput ChIP-IT® Kit
ChIP-IT® PBMC
ChIP-IT® FFPE II
Tag-ChIP-IT®
Specialized ChIP-IT® Kits

ATAC-Seq kit

Analyze open chromatin regions at genome-wide scale in formaldehyde-fixed cells

The ATAC-Seq Kit from Active Motif provides the reagents necessary to produce 16 unique sequencing-ready Illumina®-compatible ATAC-Seq libraries from 20 – 30 mg tissue or 50,000 – 100,000 cells per reaction. The optimized protocol guides you through the steps for sample preparation, tagmentation and library preparation, yielding next-gen sequencing-ready libraries that can be multiplexed in a single flow cell sequencing run.



Spike-In Normalization

Analyze data with confidence and reveal true differences between samples

The identification of differences between data sets can be challenging when global modification changes occur, such as in the case of studying the effects of chromatin modifying enzyme inhibitors. Additionally, inaccurate quantification of starting material or technical variation during processing results in variation across sample data. Currently available bioinformatic-based normalization methods are not applicable for normalizing across data sets in these instances, and the only reliable way to overcome bias and variation is to add a known standard (spike-in) into all samples. Active Motif offers spike-in reagents for ATAC-Seq, ChIP-Seq, CUT&RUN, and CUT&Tag.



ATAC-Seq Spike-In Control

Overcome variation between ATAC-Seq datasets to compare and see actual differences.

CUT&RUN Spike-In Control

Reveal true differences between CUT&RUN datasets.

CUT&Tag-IT Spike-In Control, R-loop

Analyze CUT&Tag-IT R-loop Assay datasets confidently to detect true biological differences.

ChIP-Seq Spike-In Normalization

Analyze ChIP-seq data with confidence and identify true biological difference between samples.

CUT&Tag-IT® Spike-In Control

Compare between CUT&Tag assay datasets with confidence.

Recombinant pA-Tn5 Transposase Enzymes

Tn5 and pA-Tn5 proteins for ATAC-Seq and CUT&Tag

- pA-Tn5 Transposase, 10 µg - 100 µg
- Recombinant Tn5 Transposase protein, 10 µg - 100 µg
- Pre-indexed Assembled Tn5 Transposomes, 1 x 96 rxns
- CUT&Tag-IT® Assembled pA-Tn5 Transposomes, 16 rxns - 64 rxns
- ATAC-Seq Buffer Set
- CUT&Tag-IT® Assay Buffer Set - Cells



Chromatin Assay Selection Guide

What is your source material?



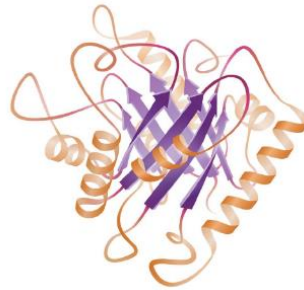
Starting with limited amounts or difficult samples, investigating open chromatin regions, Histone Marks, or Transcription Factors? Our ChIP Selection Guide can help you choose the products that are right for your experimental situation.



CUT&RUN vs. CUT&Tag vs. ChIP-Seq



Proteins & Enzymes for epigenetics, drug discovery and development



Recombinant Nucleosomes
Histones & Modified Histones
Bromodomain Proteins
RNA Methylation Enzymes
DNA Methylation Enzymes

HATs & HDACs
HMTs & HDMs
Histone Peptides
Other Proteins & Enzymes

KRAS In-well ELISA Kit



Global 5-hmC DNA ELISA Kit



Global DNA Methylation Assay-LINE-1



TransAM® Transcription Factor Activation Assays

Cited in more than 1000 publications



AP-1
ATF-2
c-Myc
C/EBP α/β

CREB & pCREB
ER
FKHR (FOXO1)
GR

HIF-1
IRF-3
MAPK Family
NFATc1

NFκB
Nrf2
p53
PPARγ

Sp1 and Sp1/Sp3
STAT3 & STAT Family
T-bet

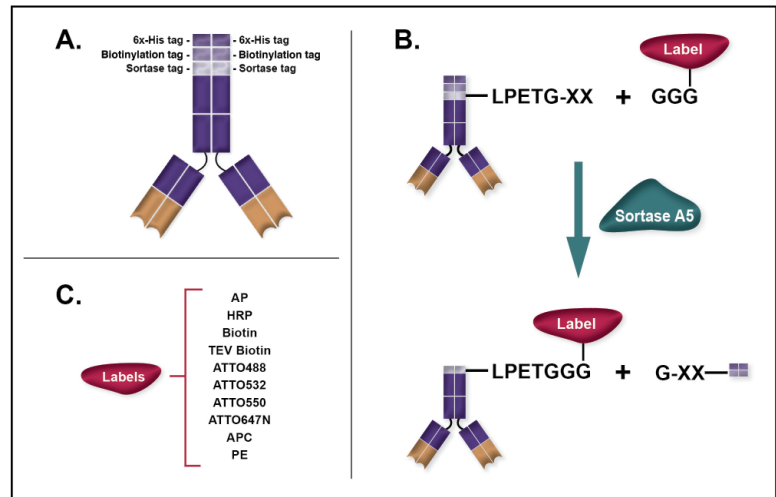
Antibodies to study epigenetics and gene regulation



AbFlex® Recombinant Antibodies



Highly specific
Unsurpassed reproducibility
Best price



CUT&Tag-Validated Antibodies



Chromatin Modifiers Antibodies



Transcription Factors Antibodies



Histones & Histone Modifications Antibodies



DNA Methylation Antibodies



ChIP-Validated Antibodies

