

Store at
4°C

10X High Salt Wash Buffer (CUT&Tag)

#18878

3 mL

**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Description: The 10X High Salt Wash Buffer (CUT&Tag) provides enough reagent to support 24 CUT&Tag assays. This product is formulated for optimal performance in the CUT&Tag assays and each lot is tested and validated using the CUT&Tag Assay Kit #77552.

Background: Similar to Cleavage Under Targets and Release Using Nuclease (CUT&RUN), Cleavage Under Targets and Tagmentation (CUT&Tag) is a powerful technique used for probing protein-DNA interactions within the natural chromatin context of the cell (1-3). CUT&Tag has many of the same advantages as the CUT&RUN assay in that it provides a rapid, robust, and true low cell number protocol for detection of protein-DNA interactions in the cell. In addition, the CUT&Tag assay adds an *in situ* adaptor DNA ligation step carried out by the pAG-Tn5 enzyme, in which an adaptor DNA is ligated directly to antibody-targeted chromatin DNA fragments in the cell. As a result, subsequent DNA library preparation is much faster and easier than library preparation following the CUT&RUN assay, free from DNA end repair, A-tailing, and adaptor ligation *in vitro*. CUT&Tag works very well for analyzing histone modifications, in addition to mapping some transcription factor and cofactor binding.

Storage: Store 10X High Salt Wash Buffer (CUT&Tag) at 4°C. This product is stable for at least 12 months.

Please visit cellsignal.com for validation data and a complete listing of recommended companion products.

Directions for Use: For the CUT&Tag assays, we recommend adding 120 µL 10X High Salt Wash Buffer (CUT&Tag), 12 µL 100X Spermidine #27287, 6 µL Protease Inhibitor Cocktail (200X) #7012, and 30 µL Digitonin Solution #16359 to 1,032 µL of nuclease-free water (1.2 mL per reaction) right before use. Please keep on ice during use.

Background References:

- (1) Kaya-Okur, H.S. et al. (2019) *Nat Commun* 10, 1930.
- (2) Kaya-Okur, H.S. et al. (2020) *Nat Protoc* 15, 3264-3283.
- (3) Henikoff, S. et al. (2021) *Bio Protoc* 11, e4043.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry CHIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry FC-FP—Flow cytometry-Fixed/Permeabilized FC-L—Flow cytometry-Live E-P—ELISA-Peptide
Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse
All—all species expected. Species enclosed in parentheses are predicted to react based on 100% homology.