|  |  |
| --- | --- |
| N-µChIP Protocol  Preparations  Cell collection, lysis and storage  Vol.  10µl -> 20µl | This protocol is optimized for native chromatin immunoprecipitation (ChIP) on 1,000 cells, namely N-µChIP. It can be used for in vitro cultured cells, however it is best suited for study of specific cell types in vivo through fluorescent activated cell sorting, regarding the advantage of low cell number it needs.  0 Cell collection, lysis and storage  Step 1/6  Cells needed:  Example Total Cell Number Number of targets per assay  I 2,000 2 IP (1 antibody, 1 IgG, 1 Input)  II 4,000 4 IP (3 antibodies, 1 IgG, 2 Input)  1. Cell preparation  1) Prepare cells from in vitro cultures:  Harvest cells from culture, Count cell number and aliquot into 2000 cells/10µl/ Eppendorf tube. Add 10µl Lysis Buffer to the cells, snap-freeze with liquid nitrogen and store in - 80°C.  2) Prepare cells from cell sorting:  Sort cells directly into a 1.5ml Eppendorf tube containing 10µl Lysis Buffer. Quick spin to bring down cells caught on the tube wall. Put the tube on ice for 5min to swell and lyse the cell membrane. Snap-freeze with liquid nitrogen and store in -80°C.  !! Attention:  Work on ice.  Use siliconized 1.5mL tube for cell collection. |