

Resource Summary Report

Generated by [dkNET](#) on Sep 20, 2026

HTAPP_CST- Nuclei isolation from frozen tissue

DOI:10.17504/protocols.io.bhbej2je

Type: Protocol

Proper Citation

Eugene Drokhlyansky, Nicholas Van Wittenberghe, Michal Slyper, Julia Waldman, Asa Segerstolpe, Orit Rozenblatt-Rosen, Aviv Regev 2020. HTAPP_CST- Nuclei isolation from frozen tissue. protocols.io dx.doi.org/10.17504/protocols.io.bhbej2je

Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.bhbej2je>

Authors: Eugene Drokhlyansky, Nicholas Van Wittenberghe, Michal Slyper, Julia Waldman, Asa Segerstolpe, Orit Rozenblatt-Rosen, Aviv Regev

Group: NCIHTAN

Summary: This protocol describes a method based on work by Drokhlyansky et al. for nuclei isolation from frozen tissue. It can be used on both healthy and disease tissues and is compatible with droplet-based single-nucleus RNA-Seq technology Slyper et al. This method is part of a toolbox for processing frozen tissue samples for single-nucleus RNA-Seq, including the CST (this protocol), TST and NST protocols (all available in protocols.io). We recommend users to test all three protocols on their tissue type of interest and perform side-by-side comparison of the data generated. A description of the complete toolbox and guidance for testing and selecting methods from the toolbox for processing other tumors can be found in Slyper et al. For the Human Tumor Atlas Pilot Project (HTAPP), the CST-nuclei isolation method was used to profile pediatric glioma frozen samples. It was also tested on metastatic breast cancer, ovarian cancer, pediatric sarcoma, and pediatric neuroblastoma frozen samples. For these cancer types, however, TST was the protocol of choice.

Affiliations: Broad Institute; Human Tumor Atlas Pilot Project, Broad Institute; Human Tumor Atlas Pilot Project, Broad Institute; Human Tumor Atlas Pilot Project, Broad Institute; Human Tumor Atlas Pilot Project, Broad Institute; Human Tumor Atlas Pilot Project, Broad Institute; Human Tumor Atlas Pilot Project; Massachusetts Institute of Technology; Howard Hughes Medical Institute

Version: 2

Publication Date: 2020

Proper Citation: Eugene Drokhlyansky, Nicholas Van Wittenberghe, Michal Slyper, Julia Waldman, Asa Segerstolpe, Orit Rozenblatt-Rosen, Aviv Regev 2020. HTAPP_CST-Nuclei isolation from frozen tissue. protocols.io dx.doi.org/10.17504/protocols.io.bhbej2je

Record Creation Time: 20210329T220545+0000

Record Last Update: 20210329T221153+0000

Data and Source Information

Source: