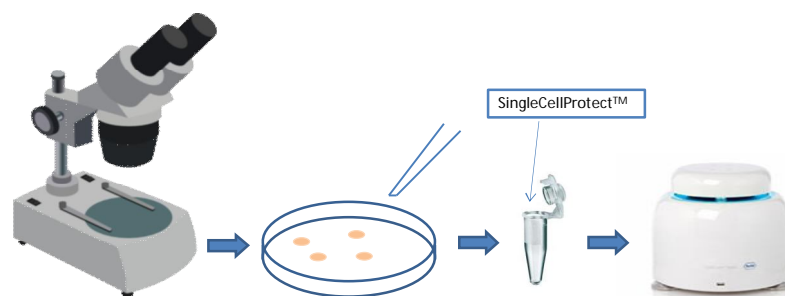
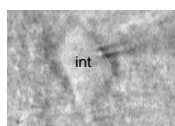


SingleCellProtect™ Single Cell Stabilizing Solution

SingleCellProtect™ (Cat# SCP-50, SCP-250) solution is an aqueous, nontoxic reagent that induces cell lysis, stabilizes and protects cellular RNA and DNA. It is compatible with reverse transcription, ligation, DNA polymerase reactions, therefore the application of **SingleCellProtect™** is highly recommended for single cell genomics technologies (single cell PCR, next generation sequencing, library preparation, multiplex PCR analysis, etc.).



Protocol for single cell qPCR from cell culture: Centrifuge 100-2,000 cells in 1 ml PBS for 5 min with 3 000 rpm. Discard supernatant and resuspend pellet in 0.2-1 ml FBS free culture medium. Place some drops on a Petri dish cover and gather individual cells under a microscope and transfer each to a PCR tube in 2 µl volume. Add 0.2 µl 10x **SingleCellProtect™** to the tube. Keep samples on ice for further processing or store individual cells at -80 °C.



By using **SingleCellProtect™** significantly increased the number of RNA molecules that could be detected by either traditional single cell qPCR, or digital PCR

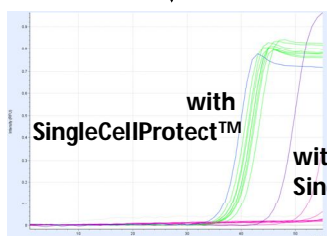
Harvest cytoplasm
Add **SingleCellProtect™**

↓

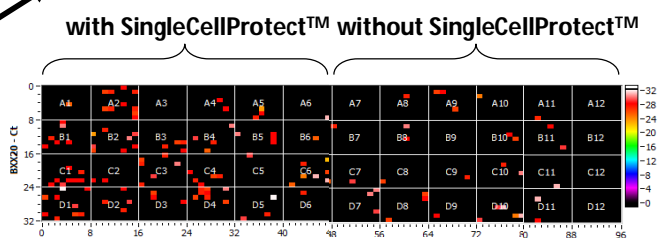
Store at -80 °C or directly apply
reverse transcription

↓

Single-cell qPCR



Single-cell digital PCR



Amplification of HMOX1 in single human pyramidal neurons from patients with brain oedema. Each column represents one neuron

Protocol for patch-clamped cells: at the end of the recording, aspirate the intracellular content into the recording pipette by application of a gentle negative pressure while maintaining the tight seal. Delicately remove the pipette to allow outside-out patch formation. Expell the content of the pipette (2 µl artificial cerebrospinal fluid containing 1x **SingleCellProtect™**) into a low-adsorbtion test tube. Snap-froze the sample in liquid nitrogen and store at -80 °C or immediately use for reverse transcription.

Warning: Avidin's products are suitable for research purposes only, and not for human or animal care

ORDER/INFO: AVIDIN Ltd. www.avidinbiotech.com; Email: laszlo@avidinbiotech.com; TEL: +36-30-6765-384