

Multiplex Samples by Antibody Hashing

Unlock critical single-cell insights with increased throughput and cost-efficiency

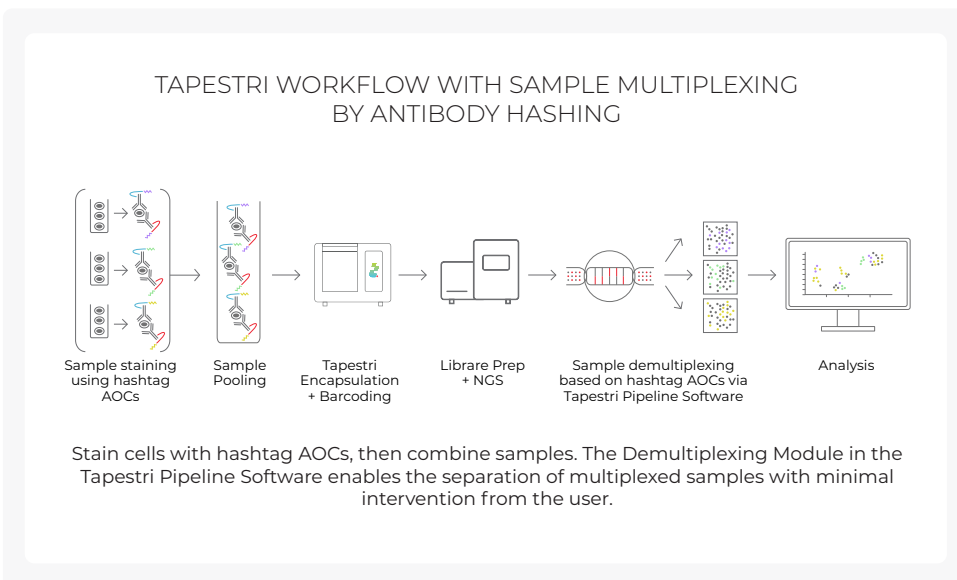


TAPESTRI® SINGLE-CELL MULTI-OMICS PLATFORM

Sample Multiplexing by Antibody Hashing

Sample multiplexing allows multiple samples to be pooled and processed simultaneously in a single run on the TapeStri Platform. Sample Multiplexing by Antibody Hashing* is an approach that leverages hashtag antibody oligo conjugates (AOCs) with unique barcodes to distinguish samples.

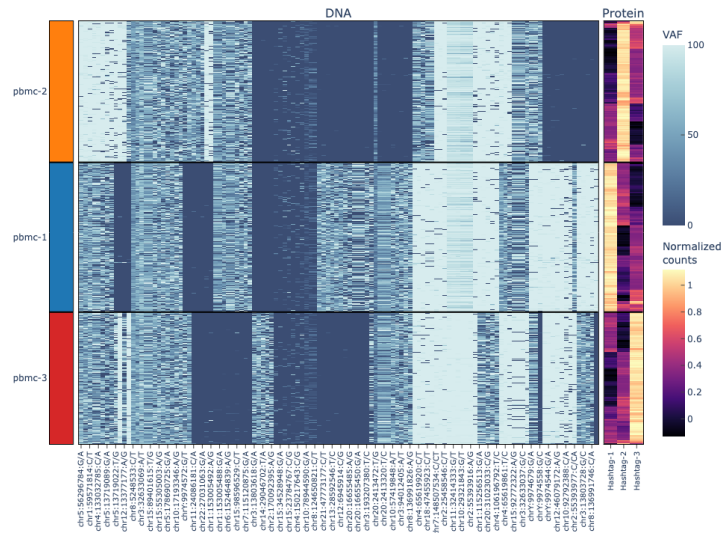
In this approach, cells are stained with antibody hashtags and combined, run on TapeStri, and then demultiplexed using the TapeStri Pipeline Software. This widely adopted and verified approach allows you to multiplex samples regardless of genetic relation, allowing for longitudinal or same patient retrospective studies.



KEY BENEFITS

- **Fast high-throughput strategy**
Multiple samples are processed in a single experiment, allowing for more statistically-significant studies.
- **Cost-efficient method**
Sample pooling improves efficiency by minimizing hands-on time and reducing per-sample costs by up to 60%*
- **Streamlined analysis**
Automatic sample demultiplexing using the TapeStri Pipeline Software.
- **Consistently robust performance**
Increase throughput and cost-efficiency without sacrificing sensitivity and specificity

TAPESTRI PIPELINE SOFTWARE EFFICIENTLY DEMULTIPLEXES SAMPLES POST-SEQUENCING



Heatmap showing a mix of three human peripheral blood mononuclear cell (PBMC) samples efficiently demultiplexed by antibody hashtags. The right side of the heatmap shows the SNP profile of each sample and the left side of the heatmap shows the presence of each respective hashtag with its corresponding sample.

COMPARISON OF SAMPLE MULTIPLEXING STRATEGIES

Choose the approach that best fits your study.

Sample Multiplexing by Antibody Hashing**	Sample Multiplexing by Genotyping
<ul style="list-style-type: none"> Universally adopted and verified technique for sample multiplexing Multiplex samples regardless of genetic relation for longitudinal or same-patient retrospective studies Save one day of hands-on-time Requires at least 1M cell input 	<ul style="list-style-type: none"> Multiplex samples with minimal cell manipulation and workflow change Requires bulk sequencing data to distinguish samples. Must be unique, genetically unrelated samples Save two days of hands-on-time Requires at least 50K cell input

*Per-sample cost is dependent on the NGS platform and reagents used. Contact a Mission Bio representative to discuss.

**Sample Multiplexing by Antibody Hashing capability is currently available only for Tapestri single-cell DNA workflows.

[CONTACT US TO LEARN MORE](#)

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ORDERING INFORMATION

Product	Part Number
Tapestri Instrument	MB01-0020
Tapestri Single-Cell DNA + Protein Core Kit v3	MB03-0084
Tapestri Single-Cell DNA Cartridge Kit v3	MB03-0100
BioLegend TotalSeq Antibody Hashtags	Visit the BioLegend website
Tapestri Pipeline Software with Demultiplexing Module	Available via the Mission Bio Portal