

BD Rhapsody™ TCR/BCR Multiomic Assay

A full-length T cell and B cell receptor profiling tool for single-cell studies



Human



Multiomics enabled

Full-length B cell and T cell receptor profiling of human samples compatible with the BD Rhapsody™ Single-Cell Analysis System allowing:

- Gene expression evaluation with whole transcriptome and targeted mRNA assays
- Cell-surface protein expression investigation with individual AbSeq antibodies or the 30-plex predesigned immune discovery panel

Easily design your experiments with validated protocols and products and find everything you need from your single source for single cell.

Custom BD® AbSeq Antibodies available upon request



Full-length assay

- Single-cell level analysis of full-length B and T cell receptors including framework regions 1–4 and CDR regions 1–3
- Uncover clonal diversity and function of full-length V(D)J sequences for T and B cells at the single-cell level
- Profile TCR and BCR being expressed in disease states and clonotype expansion



3' gene expression enabled with V(D)J expression

Compare data across multiple experiments with and without V(D)J



Detection of rare cell types

Unveil distinct characteristics of rare cell populations like gamma delta T cells that contribute to the role and function of other cell types or disease states



Sample multiplexing

- Multiple samples can be multiplexed in one workflow
- Increase sample throughput and save cost, minimize batch effects and reduce time to discovery when multiplexing samples



Save on sequencing costs

Recommended sequencing depth of BCR and TCR libraries is 5,000 reads per cell

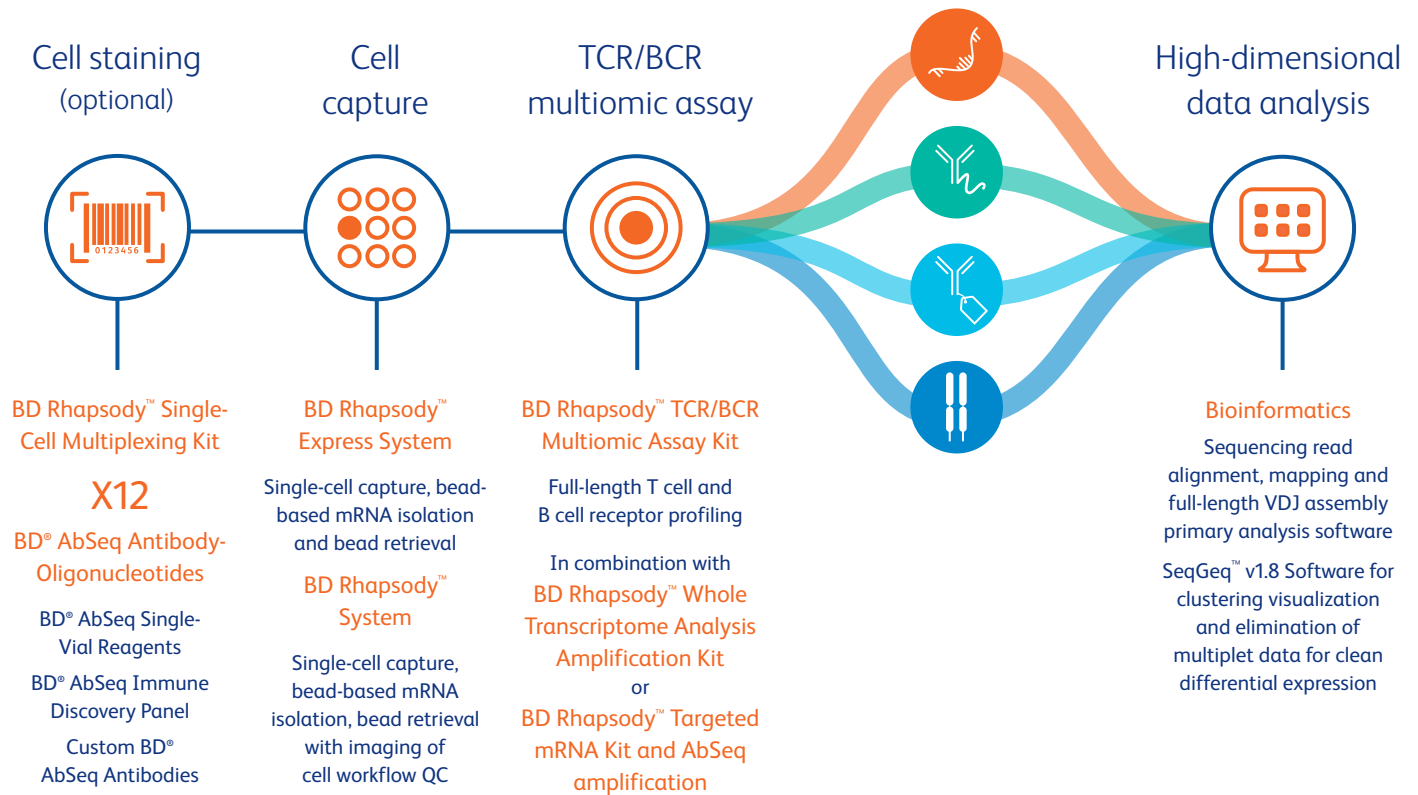


Confidence in your data to answer biological questions

High specificity and sensitivity of V(D)J chain detection

Applications of interest in research

- Screen for antigen-specific cells in response to infectious diseases
- Develop vaccines and evaluate their efficacy
- Discover biomarkers for immunotherapy
- Profile the immune repertoire of tumor infiltrating lymphocytes
- Understand transplant rejection or tolerance
- Pinpoint and characterize new approaches for cell therapies



Ordering information

| Human assay | |
|---|----------|
| Description | Cat. No. |
| BD Rhapsody™ TCR/BCR Multiomic Assay for Targeted mRNA Analysis* | 665828 |
| BD Rhapsody™ TCR/BCR Multiomic Assay for Whole Transcriptome Analysis | 665829 |
| Suggested companion instruments (compatible with both assays) | |
| Description | Cat. No. |
| BD Rhapsody™ Single-Cell Analysis System | 633701 |
| BD Rhapsody™ Express Single-Cell Analysis System | 633702 |

*Additional primer panel is required

| Human species compatible suggested companion products | |
|---|-----------------------|
| Description | Cat. No. |
| BD® AbSeq Single-Vial Reagents | Contact for more info |
| BD® AbSeq Immune Discovery Panel | 625970 |
| BD® Immune Response Panel HS | 633750 |
| BD® Human Single-Cell Sample Multiplexing Kit | 633781 |
| Custom BD® AbSeq Antibodies | Contact for more info |

To request a quote or place an order, visit bdbiosciences.com or contact your local BD sales representative.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

BD Life Sciences, San Jose, CA 95131, USA

bdbiosciences.com

