

BD Rhapsody™ TCR/BCR Multiomic Assay

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



Mouse



Multiomics enabled

Full-length B cell and T cell receptor profiling of mouse 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

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

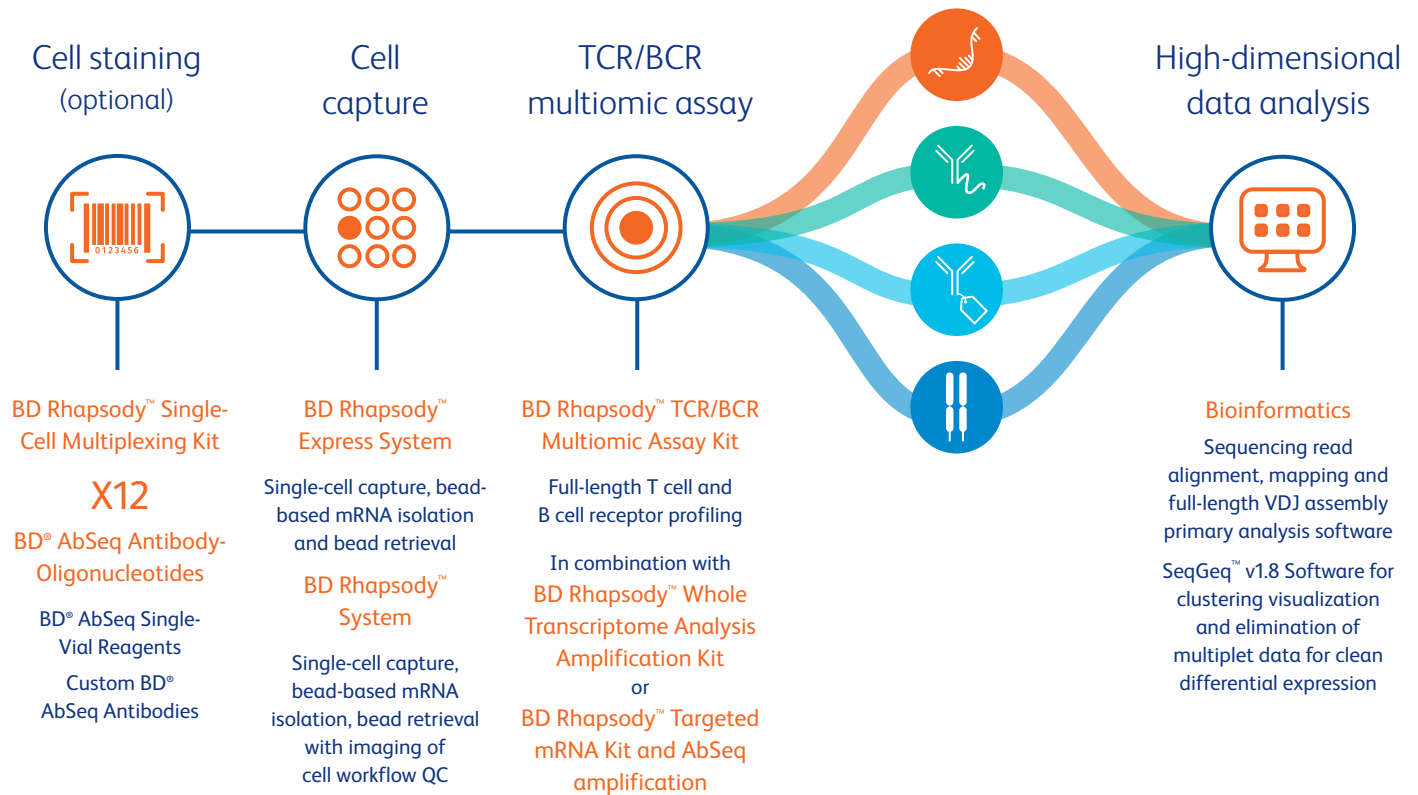


Confidence in your data to answer biological questions

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

Applications of interest

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



Ordering information

Mouse assay	
Description	Cat. No.
BD Rhapsody™ Mouse TCR/BCR Multiomic Assay for Targeted mRNA Analysis*	666280
BD Rhapsody™ Mouse TCR/BCR Multiomic Assay for Whole Transcriptome Analysis	666281
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

Mouse species compatible suggested companion products	
Description	Cat. No.
Ms Single Cell Sample Multiplexing Kit	633793
BD Rhapsody™ Immune Response Panel Mm	633753
BD® AbSeq Single-Vial Reagents	Contact for more info
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.

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