

# 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 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
- Custom BD® AbSeq Antibodies available upon request

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



### 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 a disease state



### 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

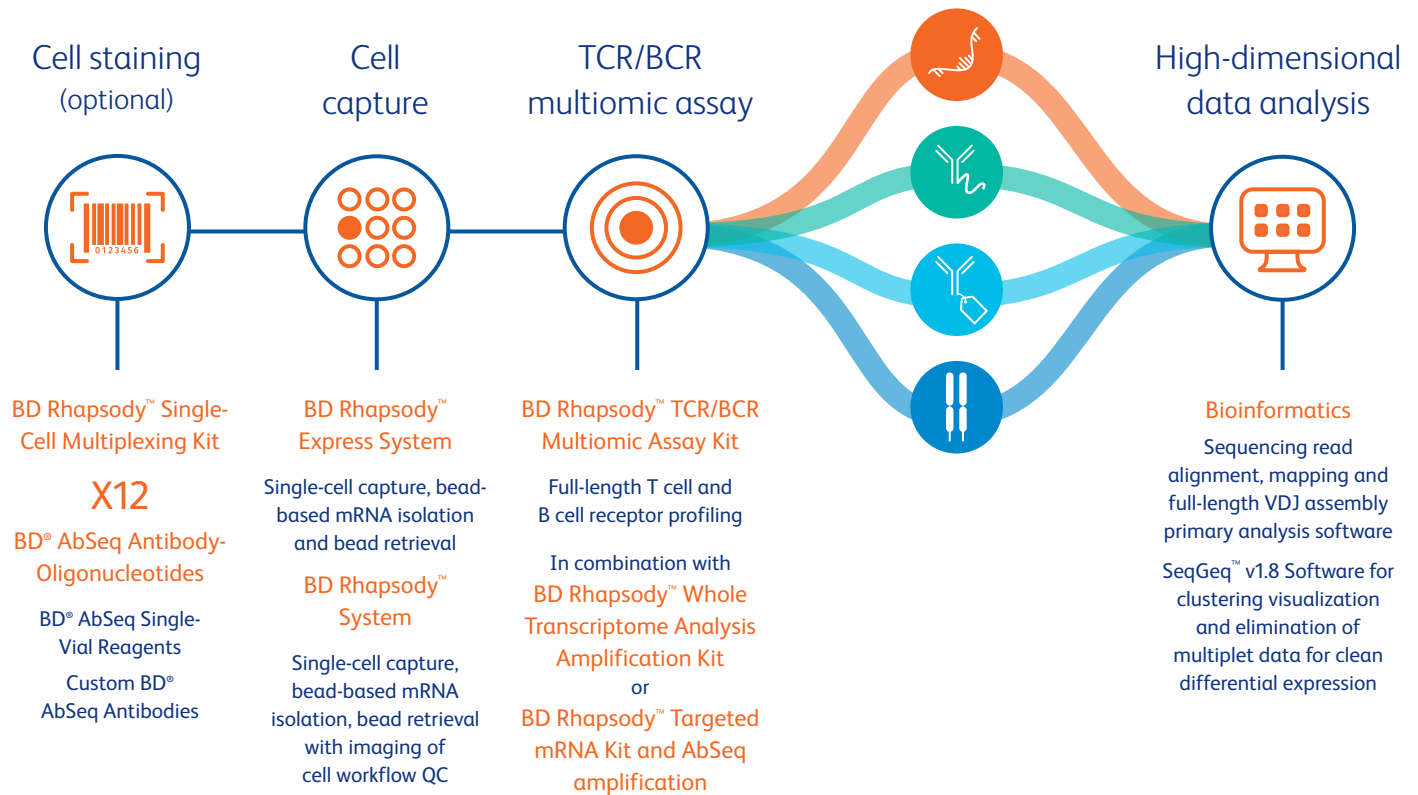


### Confidence in your data to answer biological questions

- 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](http://bdbiosciences.com) or contact your local BD sales representative.

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BD Life Sciences, San Jose, CA 95131, USA

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