

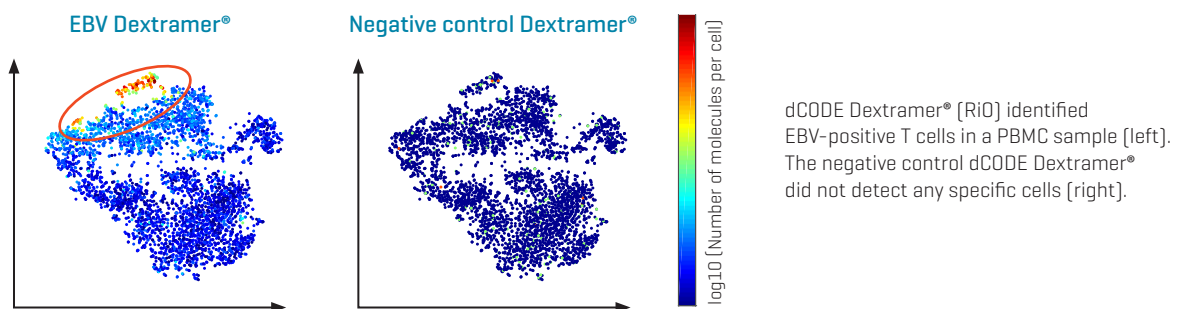
Combine Antigen-specific T-cell Analysis With Multi-omics Analysis

dCODE Dextramer® [RiO] products are DNA barcoded MHC Dextramer® reagents designed to be compatible with BD Rhapsody™ Single-Cell Analysis System. Characterize T-cell populations at a single cell level and obtain a deeper understanding and new insights into the complexity of the immune system.

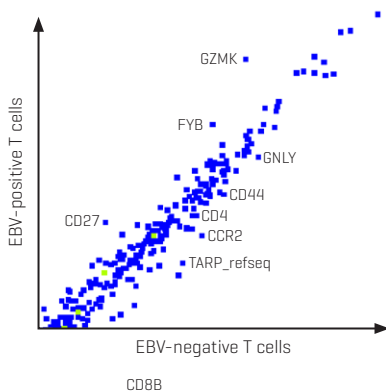
Discover What You Can Do With dCODE Dextramer® [RiO]

Determine T-cell antigen-specificity at single-cell resolution, providing simultaneous information on gene expression and surface markers expression. In this example, disease-specific CD4+ T cells were detected within thousands of PBMC to obtain their gene expression profiling at the single-cell level.

Detection of Antigen-specific T-cell Populations



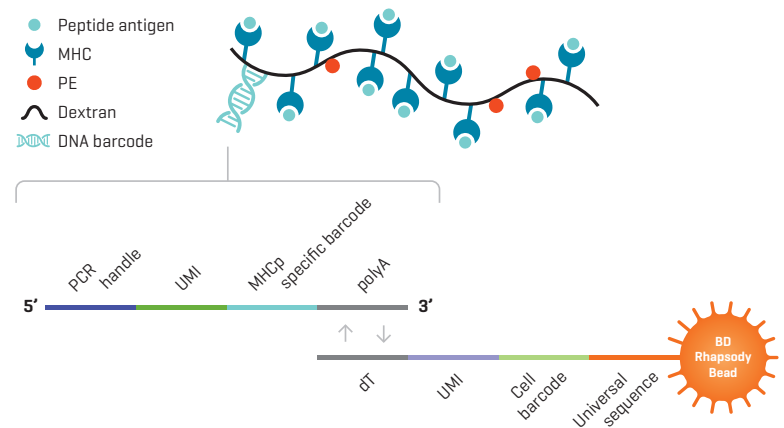
Gene Expression Profiling of Antigen-specific T-cell Populations



Gene expression profiling was determined for each cell identified by dCODE Dextramer® [RiO]. Comparing gene expression of EBV-positive population vs. EBV-negative, it was possible to define the differential gene expression.

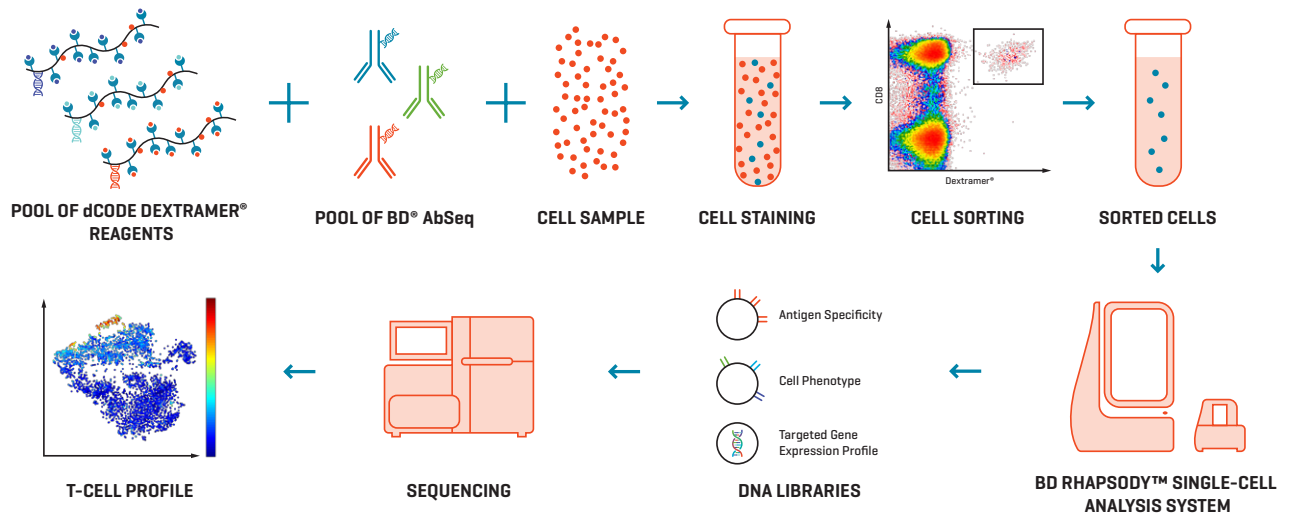
Key Features of dCODE Dextramer® [RiO]

- High-avidity binding to T-cell receptors thanks to multiple MHC-peptide complexes
- Massive multiplexing screening thanks to the unique barcode for each MHC-peptide specificity
- Enrichment of low-frequency cells thanks to PE fluorochromes
- Multiparametric analysis with BD Rhapsody™ Single-Cell Analysis System



dCODE Dextramer® (RiO) Experimental Workflow

Get the most out of your sample. Combine dCODE® technology with BD's multi-omics solutions and obtain full immunological profiling in just one workflow.

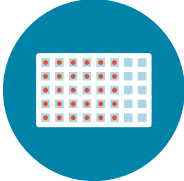


dCODE Dextramer® (RiO) Products

- MHC I dCODE Dextramer® (RiO) for the detection of CD8+ antigen-specific T cells
- MHC II dCODE Dextramer® (RiO) for the detection of CD4+ antigen-specific T cells
- dCODE® Klickmer to create personalized dCODE Dextramer® (RiO) by loading your choice of biotinylated molecules [for B-cell research and much more]

dCODE Dextramer® Product Grades


EXPLORE



Reagent panels [16, 32, 48, 64, 80, 96, nx96 specificities] designed for large screenings [i.e. epitope discovery and neo-antigen screening]

- Selected MHC I alleles available
- Peptide binding based on peptide-MHC affinity prediction, not validated by a quality control

GOLD



Single reagents designed for the analysis of few antigen specificities [i.e. monitoring of a small number of antigen-specific populations or validation of large screening findings]

- All MHC I and MHC II alleles from Immudex' catalog are available. List of alleles on Immudex' website
- Peptide binding validated by a quality control

© Immudex ApS Denmark, 2021

For research use only. Not for use in diagnostic or therapeutic procedures. Immudex is the sole manufacturer and provider of dCODE Dextramer® (RiO) reagents, and support related to these products is through Immudex