

# dCODE™ DEXTRAMER®

## dCODE™ DEXTRAMER® REAGENTS

Fluorochrome-labeled MHC Dextramer® reagents are used to identify antigen-specific T cells using flow cytometry.

The dCODE™ Dextramer® is a new technology enabling MHC I and II Dextramer® reagents to be combined with sequence-based phenotyping of antigen-specific T cells by linking a DNA barcode to the MHC Dextramer® reagent.

Each dCODE™ Dextramer® carries a unique DNA barcode matching the MHC-peptide specificity on the Dextramer®. This barcode enables detection of antigen-specific T cells by PCR followed by Next Generation Sequencing.

The dCODE™ Dextramer® technology provides a new understanding of T-cell immunology in cancer, allergy, infectious and autoimmune diseases and may be used in:

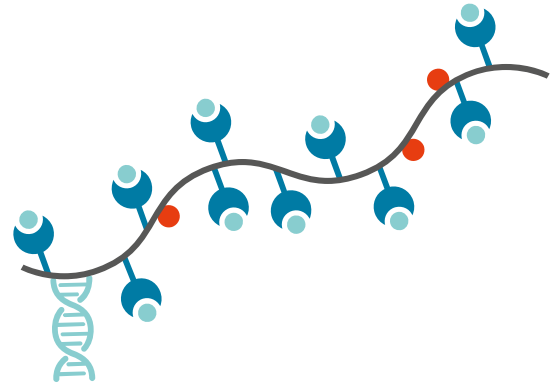
- Biomarker assays
- Epitope discovery
- Neo-antigen identification
- Immune monitoring
- Patient stratification

## KEY FEATURES OF dCODE™ DEXTRAMER®

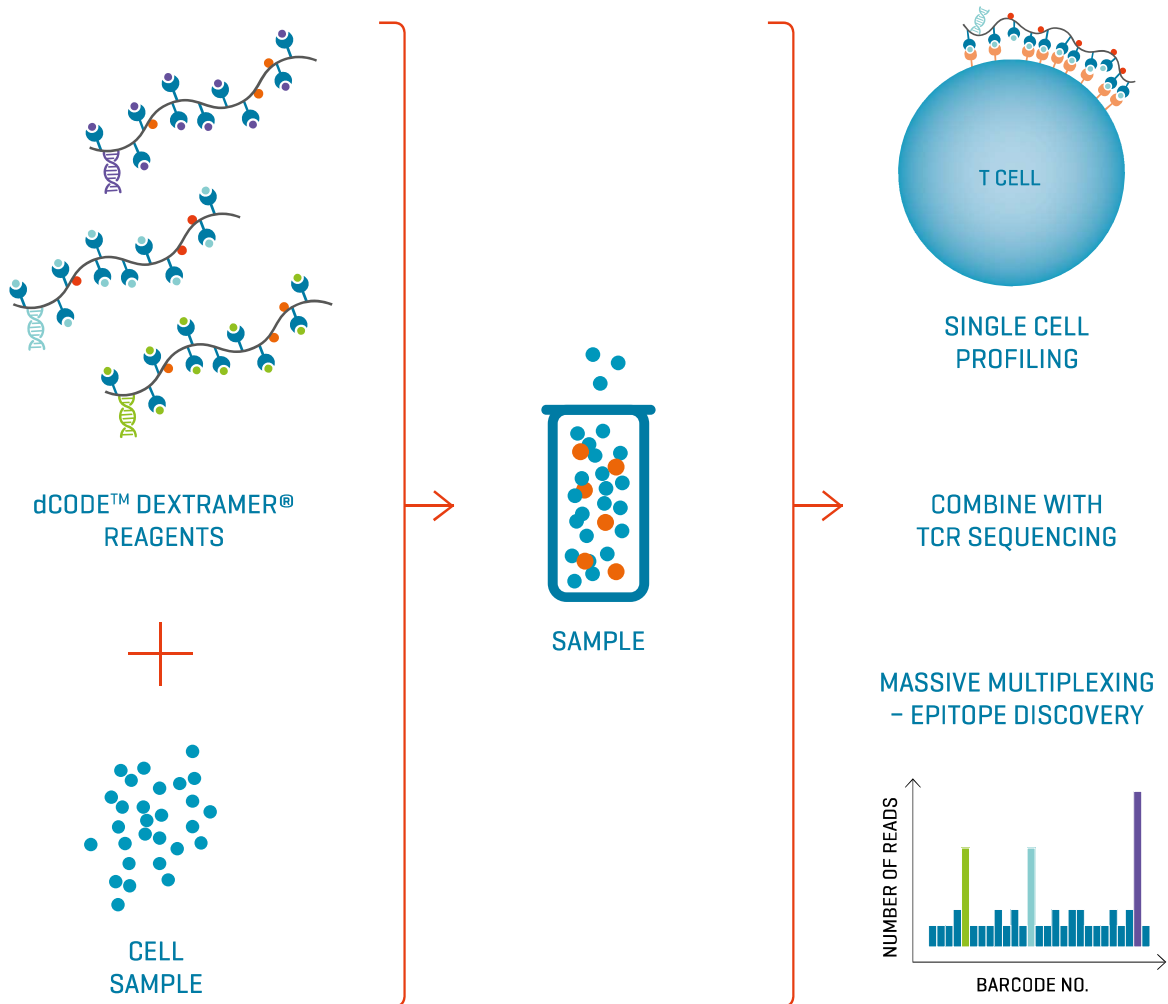
- Identifies antigen-specific T cells based on TCR recognition
- Unique barcode label for each specificity
- Allows massive multiplexing
- Applicable in Next Generation Sequencing assays

dCODE™ Dextramer® reagents are available with either MHC I or MHC II, and come as single reagents as well as packages of customer-defined panels.

## dCODE™ DEXTRAMER®



## Potential applications



### REFERENCE

dCODE™ Dextramer® reagents have the potential to identify > 1000 antigen-specific T-cell populations within a single sample:

Bentzen, AK. et al. "Large-scale detection of antigen-specific T-cells using peptide-MHC I multimers labeled with DNA barcodes", Nature Biotechnology 34, 1037-1045 [2016]