

dCODE™ Dextramer® (10x compatible)

For research use only. Not for use in diagnostic procedures.

Specificity and use

For detection of antigen-specific T cells in cell samples using unique DNA Barcode identifiers, compatible with 10x Genomics Feature Barcoding Technology.

Description

dCODE™ Dextramer® reagents comprise a dextran polymer backbone carrying multiple MHC-peptide complexes and a corresponding unique DNA Barcode.

The Unique DNA Barcode comprises:

- Primer sequence compatible with Illumina® Sequencers (Nextera pR2)
- Unique molecule identifier (UMI)
- ID sequence (barcode) that specify the MHC-peptide specificity
- Capture sequence for 10x Chromium single cell immune profiling solution

Outline of DNA Barcode structure:

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5'   -Nextera pR2 -   - UMI -   - ID -   - UMI -   - Capture seq -   3'
5' CCGAGATGTGTATAAGAGACAGNNNNNNNNNNXXXXXXXXXXXXXXXXNNNNNNNNNNCCCATATAAGAAA   3'
  
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Each dCODE Dextramer also carries R-phycoerythrin (PE) that can be used for sorting.

dCODE™ Dextramer® reagents are provided in liquid form in PBS buffer containing 1% bovine serum albumin (BSA) and 15 mM NaN₃, pH 7.2.

Concentration of reagent: 16 x10⁻⁸ M.

2 µl reagent equal 1 test and is enough to stain 1-10 x 10⁶ PBMCs.

Precautions

1. The device is not intended for clinical use including diagnosis, prognosis, and monitoring of a disease state, and must not be used in conjunction with patient records or treatment.

2. This product contains sodium azide (NaN₃), a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous, sodium azide may react with lead and copper plumbing to form highly explosive build-ups of metal azide. Upon disposal, flush with large volumes of water to prevent metal azide build-up in plumbing.

3. As with any product derived from biological sources, proper handling procedures should be used.

Store in the dark at 2-8 °C. Do not freeze. Keep away from sunlight.