

dCODE Dextramer® (10x compatible)



dCODE Dextramer® (10x compatible) - Gold dCODE Dextramer® (10x compatible) - Explore

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'  CCGAGATGTGTATAAGAGACAGNNNNNNNNNNXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXNNNNNNNNNNCCCATATAAGAAA 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 NaN_3 , pH 7.2.

Concentration of reagent: 16×10^{-8} M.

2 µl reagent equal 1 test and is enough to stain $1-10 \times 10^6$ PBMCs.

Storage

Store in the dark at 2-8°C.

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 (NaN_3), 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.

Patents

The dCODE® technology is disclosed in granted and pending patents within the WO 2015/185067 and WO 2015/188839 patent families including US11402373, US11585806, EP3152232, AU2015271324, AU2019264685, SG11201610177U and JP6956632.

Symbols

See www.immudex.com/symbols

Technical support

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Manufacturer

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