dCODE Dextramer® (10x)

Products

dCODE Dextramer® (10x) (Gold/Explore), cat# WBxxxxxdXG / FBxxxxxdHG
CD1d dCODE Dextramer® (10x) (Gold/Explore), cat# XDxxxxxDXG / YDxxxxxDXG
MR1 dCODE Dextramer® (10x) (Gold/Explore), cat# ZAxxxxxDXG / ZBxxxxxDXG

Collectively denominated dCODE® (10x) reagents

Recommended use

Profiling and quantitation of antigen-specific T, NKT, or MAIT cells in cell samples, using the 10x Chromium Single Cell Gene Expression platform.

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

Description

dCODE® (10x) reagents consist of a dextran polymer backbone carrying multiple MHC, CD1d, or MR1-antigen complexes, a corresponding unique DNA Barcode oligo, and R-phycoerythrin (PE) for sorting of dCODE® (10x) positive cells before loading the sample into the 10x Chromium platform.

- dCODE® (10x) reagents are provided at a concentration of 160 nM in PBS, containing 1% bovine serum albumin (BSA) and 15 mM NaN_3, pH 7.2.
- 2 µL (1 test) is recommended for staining of 1-3 x 10^6 PBMCs.
- Each dCODE® (10x) reagent is uniquely identified by its allele / Peptide / 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 or MR1-ligand specificity
- Capture sequence for 10x Chromium single cell immune profiling solution

5′ -Nextera pR2 - - UMI - - ID - - UMI - - Capture seq - 3′
5′ CGGAGATGTGTATAAGAGACAGNNNNNNNNNNXXXXXXXXXXXXXXXXNNNNNNNNNCCCATATAAGAAA 3′

Sizes

dCODE® (10x) reagents - Gold: Single reagents of 25 tests (50 µL), 50 tests (100 µL), or 150 tests (300 µL) each.

dCODE ® (10x) reagents - Explore: Panels of 16, 32, 48, 64, 80, or 96 dCODE® (10x) reagents for 10 tests (20 µL), 25 tests (50 µL), or 50 tests (100 µL) each.

Storage

dCODE® (10x) reagents should be stored at 2-8°C in the dark – the plastic vial only partially protects the reagents against light.

Precautions

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 azides. Upon disposal, flush with large volumes of water to prevent metal azide build-up in plumbing.

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, US11668705, EP3152232, EP3155426, HK1236546 B, AU2015271324, AU2019264685, AU2021204496, CA2951325, SG11201610177U, JP6956632 and JP7271465.

Symbols

See www.immudex.com/symbols

Technical support

Immudex® is the sole manufacturer and provider of dCODE Dextramer® (10x) reagents, and support related to these products is through Immudex.

E-mail Immudex customer support: customer@immudex.com
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Manufacturer

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