

MHC Dextramer® Optimization Kit (RUO)

H-2 Kb / SIINFEKL / FITC

Cat. No. JD021630 FI

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

Recommended use

Optimization of assay conditions for detection of antigen-specific T cells e.g. in tissue sections.

Introduction

MHC Dextramer® reagents are recommended for identification, enumeration and tracing of antigen-specific T cells during the cell-mediated immune response to e.g. infections, tumours or vaccination programs. MHC Dextramer® reagents consist of a polymer backbone carrying multiple pMHC and FITC (fluorochrome) molecules, ensuring the binding of antigen-specific T cells and visualization, respectively.

Reagent provided

The MHC Dextramer® Optimization Kit (RUO) comprises three vials of MHC Dextramer® reagents (“Low”, “Medium”, and “High”) carrying a Low, Medium and High number of pMHC molecules, respectively. The three MHC Dextramer® reagents have the same specificity, i.e. the Dextramer® reagents display same allele and peptide.

The three MHC Dextramer® reagents provided are: JD021630 FI Low, JD021630 FI Medium, and JD021630 FI High.

The MHC Dextramer® reagents carry a high number of fluorescein isothiocyanate isomer 1 (FITC) molecules. The FITC molecule may be used directly as a fluorescent label, or as a tag for a secondary antibody/visualization system.

The MHC Dextramer® reagents are provided in Tris-buffer containing 1% bovine serum albumin (BSA) and 15 mmol/L NaN₃, pH 7.2.

MHC allele

H-2 Kb

Peptide

SIINFEKL

Precautions

1. The device is not intended for clinical use including diagnosis, prognosis, and monitoring of a disease state, and it 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 azides. 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.

Storage

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