

Abstract**DETERMINING ANTIGEN RECOGNITION THROUGH BARCODING OF MHC
MULTIMERS**

The present invention describes the use of nucleic acid barcodes as specific labels for MHC multimers to determine the antigen responsiveness in biological samples. After cellular selection the barcode sequence will be revealed by sequencing. This technology allows for detection of multiple (potentially >1000) different antigen-specific cells in a single sample. The technology can be used for T-cell epitope mapping, immune-recognition discovery, diagnostics tests and measuring immune reactivity after vaccination or immune-related therapies.

[No suitable figure]