

High-Quality Immune Monitoring of Antigen-Specific CD4⁺ T Cells

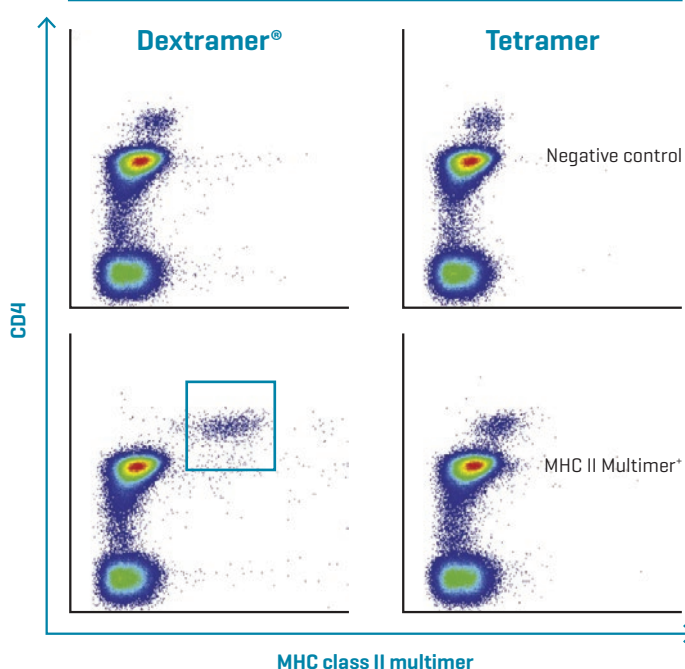
CD4⁺ T helper cells are crucial for the immune response of many diseases, given their role in recruiting and coordinating other immune cells. However, antigen specific CD4⁺ T-cells are notoriously difficult to detect in blood, in part because they are very limited in numbers and in part due to the low affinity interactions between the T cell receptors and MHC class II complexes.

MHC II Dextramer® are made up of a flexible dextran polymer decorated with multiple fluorophores and an optimized number of peptide-MHC class II complexes. They are designed for immune monitoring of antigen specific CD4⁺ T cells with superior sensitivity enabling detection of these rare cells in PBMC samples.

Applications of MHC II Dextramer®

- Detection, isolation and enumeration of antigen-specific CD4⁺ T cells by flow cytometry
- Characterization of vaccine responses
- Longitudinal studies of immunity

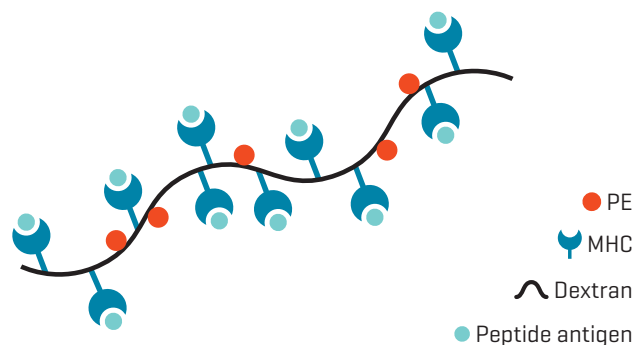
Detect CD4⁺ T Cells that Other Technologies Miss



Adapted from Dolton et al., Clin Exp Immunol. 2014.

Reasons why you should work with MHC II Dextramer®

- High order multimers with exceptional avidity enabling sensitive detection and isolation of rare antigen-specific CD4⁺ T cell populations that go undetected with classical MHC multimers.
- Ability to investigate the importance of MHC II variability in disease with access to a growing list of MHC alleles and off-the-shelf epitopes.
- Rigorous quality control ensuring reliable and reproducible results.



Expand the Scope of Your Research with a growing Portfolio of MHC II Alleles

To satisfy the diverse research needs, our list of available MHC II alleles is constantly expanding.

Customized Solutions for Your Research

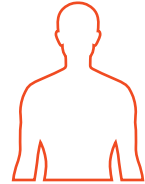
Immudex offers customer-defined MHC II Dextramer[®] reagents tailored to your needs:

- New MHC alleles not listed on our website
- Customized MHC II Dextramer[®] with your alleles and peptide of choice

Elicit the Role of CD4⁺ T Cells in Different Diseases

With MHC II Dextramer[®] reagents, you can study the role of antigen-specific CD4⁺ T cells in immunity to improve diagnosis, treatment, and ultimately prognosis for patients with:

List of available MHC II alleles



HUMAN

HLA-DRB1*0101

HLA-DRB1*0301

HLA-DRB1*0401

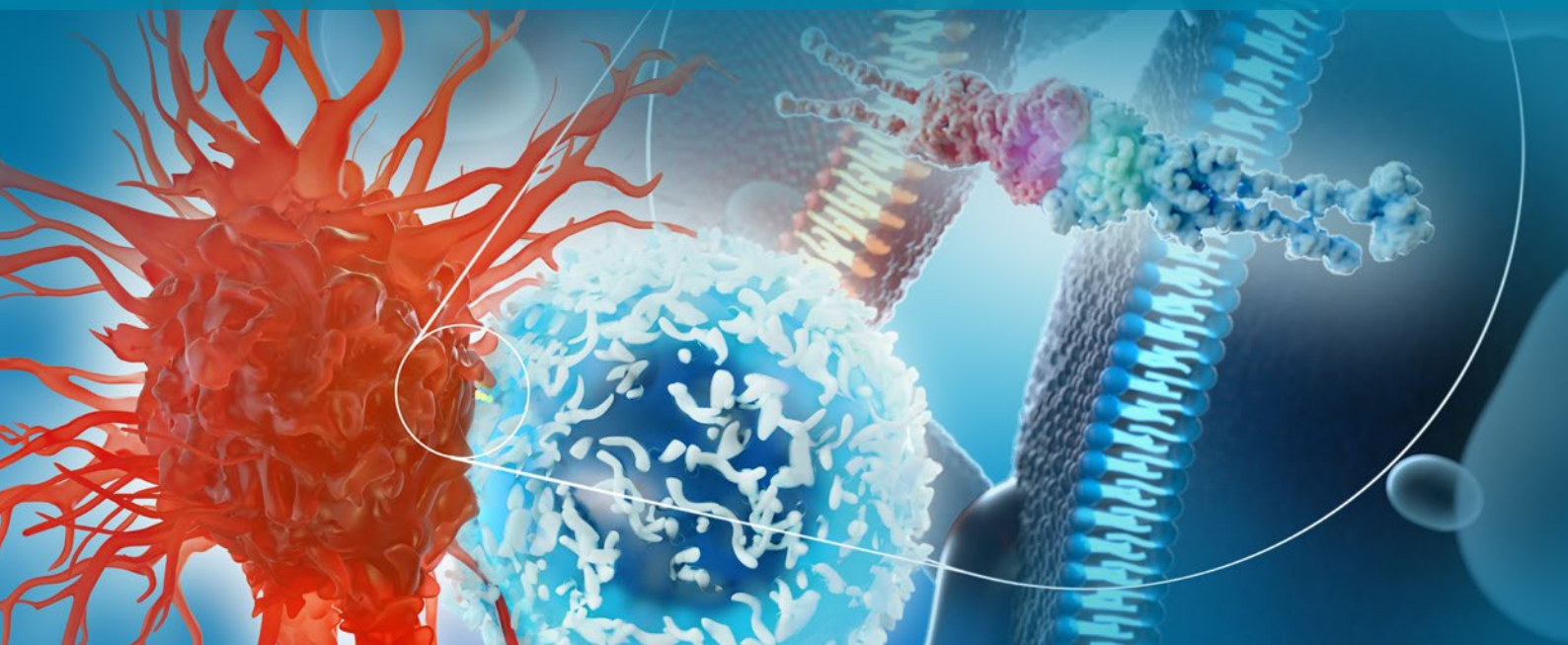
HLA-DRB1*0701

HLA-DRB1*1101

HLA-DRB1*1501

HLA-DPB1*0401

Cancer | **Autoimmune Diseases** | **Infectious Diseases** | **Transplantation** | **Allergy**



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