MHC I Dextramer®

IMMUDEX®
PRECISION IMMUNE MONITORING

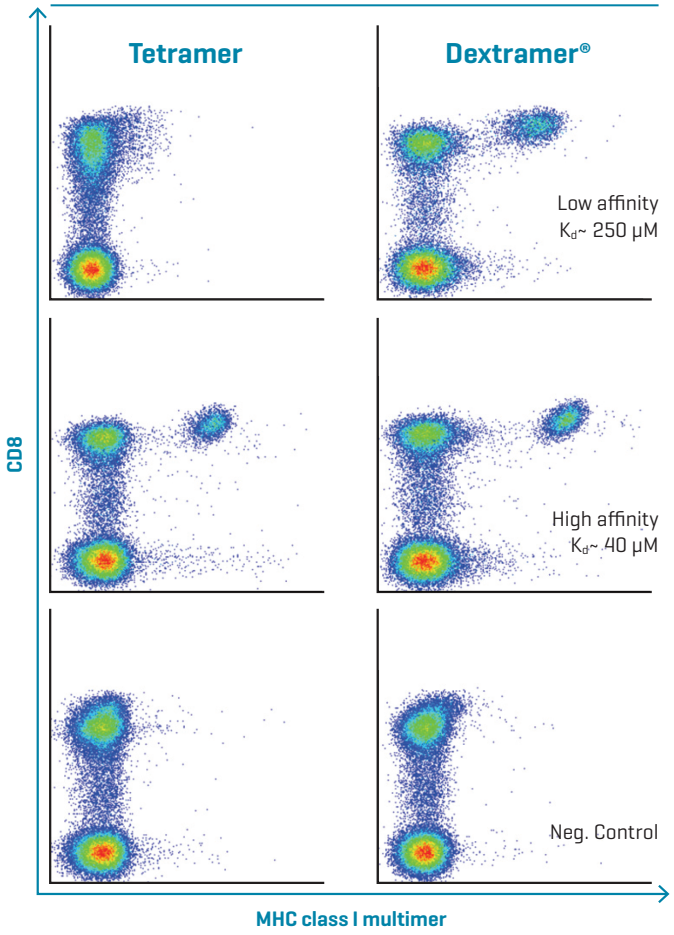
Highly sensitive monitoring of antigen-specific CD8+ T cells by flow cytometry

MHC I Dextramer® are made up of a flexible dextran polymer decorated with multiple fluorophores and an optimized number of peptide-MHC class I complexes. They are designed for immune monitoring of antigen specific CD8⁺ T cells with superior sensitivity.

Applications of MHC I Dextramer®

- Detection, isolation and enumeration of antigen-specific CD8⁺ T cells by flow cytometry
- Epitope discovery
- Characterization of vaccine responses
- Longitudinal studies of immunity

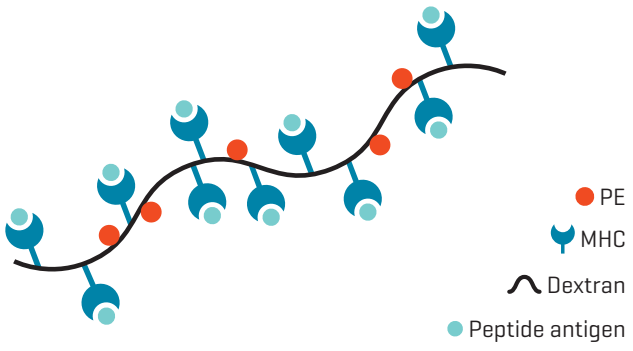
Identify Low-Affinity CD8+ T Cells that Other Technologies Miss



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

Reasons why you should work with MHC I Dextramer®

- High order multimers with exceptional avidity enabling sensitive detection and isolation of antigen-specific T cell populations with a broad range of TCR affinities.
- Ability to investigate the importance of MHC I variability in disease with access to a vast collection of MHC alleles and off-the-shelf epitopes.
- Rigorous quality control ensuring reliable and reproducible results.



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customer@immudex.com

immudex®
PRECISION IMMUNE MONITORING

Expand the Scope of Your Research with the Broadest Portfolio of MHC I Alleles

To satisfy diverse research needs, our list of available MHC I alleles is constantly expanding. You can select from >90 available MHC alleles, including human, mouse, and primates.

Customized Solutions for Your Research

Immudex offers customer-defined MHC I Dextramer® reagents tailored to your needs:

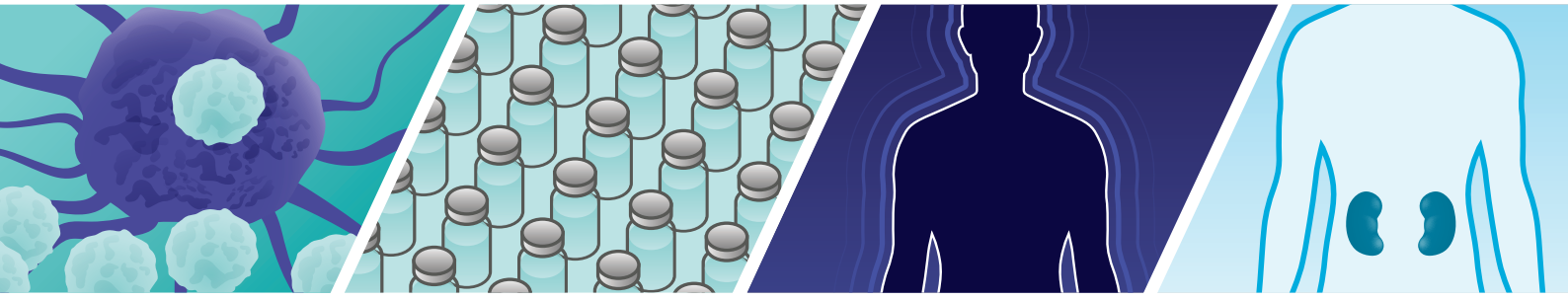
- New MHC alleles and peptide epitopes not listed on our website
- Customized MHC I Dextramer® with your alleles and peptides of choice
- MHC I Dextramer® reagents produced according to GMP standards

Unravel Disease-Specific Immunity with MHC I Dextramer®

MHC I Dextramer® reagents make it possible to monitor cytotoxic T-cell populations in response to disease and therapy within various disease areas:

List of selected available MHC I alleles

HUMAN	MOUSE	PRIMATE
HLA-A*0101	H-2 Dd	Mamu-A*01
HLA-A*0201	H-2 Dk	Mamu-A*08
HLA-A*0301	H-2 Kb	Mamu-B*17
HLA-A*1101	H-2 Kd	
HLA-A*2301	H-2 Kk	
HLA-A*2402	H-2 Ld	
HLA-A*2902	H-2 Db	
HLA-A*6801		
HLA-B*0702		
HLA-B*0801		
HLA-B*2705		
HLA-B*3501		
HLA-B*4201		
HLA-B*4403		
HLA-B*5101		
HLA-B*5701		
HLA-B*5703		
HLA-C*0304		
HLA-C*0602		



Immuno-oncology | Infectious Disease | Autoimmunity | Transplantation

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