

## Unravel the Landscape of Tissue-Specific Immunity

Most T cells reside and function at the tissue-specific sites where the actual disease manifests and establish tissue-resident memory T cells for protective immunity.

MHC I Dextramer® for in-situ staining reagents are optimized high-quality MHC class I multimers designed to detect distinct localization, distribution, and abundance of antigen-specific CD8+ T cells within diverse tissue niches in health and disease.

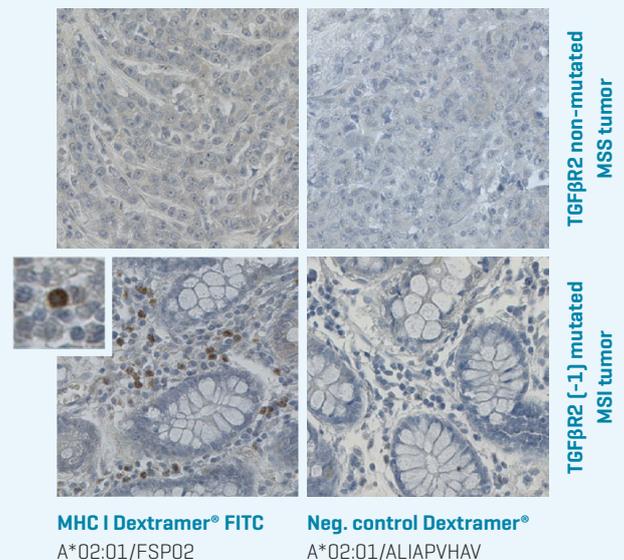
### When to Use Dextramer® for In-Situ Staining

MHC I Dextramer® for in-situ staining reagents can detect antigen-specific CD8+ T cells by direct or indirect immunohistochemistry (IHC) methods in:

- fresh samples
- frozen sections
- paraffin-embedded (FFPE) sections

**In-situ staining of tumor-specific CD8+ T cells in FFPE sections of microsatellite-stable (MSS) or -unstable (MSI) tumors from HLA-A\*0201 colorectal cancer patients, using FITC-labeled MHC I Dextramer® toward the TGFβR2 [-1] neoepitope (FSP02)**

Adapted from Mlecnik *et al.*, 2016.



### Why to Use Dextramer® for In-Situ Staining

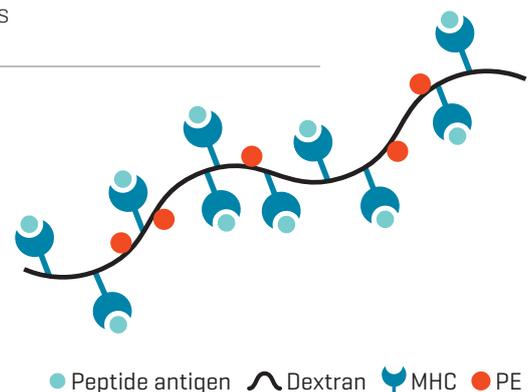
Monitoring tissue-specific T cells in mouse models and humans can advance our understanding of site-directed immunity in long-term memory, adaptive immunity, and homeostasis.

With MHC I Dextramer® for in-situ staining reagents, it is possible to:

- Detect CD8+ T-cell specificities that are not found in blood
- Study tissue-specific T-cell responses in different models: mouse, primate, and humans
- Secure flexibility in staining procedure across various tissue types

### Key Features of Dextramer® for In-Situ Staining

- High-quality multimer
- High-avidity for antigen-specific CD8+ T cells, even low-affinity ones
- Highest resolution with the lowest background



## Identify Which Dextramer® is Optimal for Your Tissue Type

Immudex provides the Dextramer® In-Situ Staining Kit for easy optimization of T-cell staining in solid tissues and helping identify the reagent optimal for your tissue type and research need.

The ready-to-use Dextramer® In-Situ Staining Kit consists of three Dextramer® reagents where:

- Each Dextramer® carries the same specificity
- Each Dextramer® has a different number of MHC-peptide complexes, providing reagents with low, medium, or high avidity
- Each Dextramer® is FITC-labelled for direct visualization by fluorescent microscopy

## Dextramer® In-Situ Staining Kit Specification

CONTENT	AMOUNT	FLUOROPHORE
Dextramer® In-Situ Staining Kit	0,2 ml	FITC
Dextramer® In-Situ Staining Kit	1 ml	FITC

## Expand the Limits of Your Research

MHC I Dextramer® for in-situ staining reagents are easily made from our constantly expanding list of MHC class I alleles in humans, mice, and primates.

Immudex also offers customized Dextramer® for in-situ staining reagents to meet your research needs:

- New MHC alleles not listed in our catalog
- Customized MHC I Dextramer® with your alleles and peptide of choice

### Most Ordered MHC I Alleles



HUMAN			
HLA-A*01:01	HLA-B*13:01	HLA-B*44:02	HLA-C*15:02
HLA-A*02:01	HLA-B*13:02	HLA-B*44:03	HLA-C*16:01
HLA-A*02:03	HLA-B*14:01	HLA-B*46:01	HLA-CW*0304
HLA-A*02:11	HLA-B*14:02	HLA-B*50:01	HLA-CW*0602
HLA-A*02:19	HLA-B*15:01	HLA-B*51:01	
HLA-A*03:01	HLA-B*15:02	HLA-B*52:01	
HLA-A*11:01	HLA-B*15:03	HLA-B*53:01	
HLA-A*23:01	HLA-B*15:09	HLA-B*55:01	
HLA-A*24:02	HLA-B*15:10	HLA-B*56:01	
HLA-A*24:03	HLA-B*18:01	HLA-B*57:01	
HLA-A*24:07	HLA-B*27:02	HLA-B*57:02	
HLA-A*25:01	HLA-B*27:03	HLA-B*57:03	
HLA-A*26:01	HLA-B*27:05	HLA-B*58:01	
HLA-A*26:03	HLA-B*35:01	HLA-B*58:02	
HLA-A*29:02	HLA-B*35:03	HLA-B*81:01	
HLA-A*30:01	HLA-B*35:05	HLA-B*83:01	
HLA-A*30:02	HLA-B*35:08	HLA-C*02:02	
HLA-A*31:01	HLA-B*37:01	HLA-C*03:02	
HLA-A*32:01	HLA-B*38:01	HLA-C*03:03	
HLA-A*33:03	HLA-B*39:01	HLA-C*03:04	
HLA-A*36:01	HLA-B*39:02	HLA-C*04:01	
HLA-A*66:01	HLA-B*39:06	HLA-C*05:01	
HLA-A*68:01	HLA-B*39:10	HLA-C*06:02	
HLA-A*68:02	HLA-B*40:01	HLA-C*07:01	
HLA-A*74:01	HLA-B*41:01	HLA-C*07:02	
HLA-B*07:02	HLA-B*42:01	HLA-C*08:01	
HLA-B*08:01	HLA-B*42:02	HLA-C*14:02	

MOUSE	
H2-Db	
H2-Dd	
H2-Dk	
H2-Kb	
H2-Kd	
H-2 Kk	
H2-Ld	

PRIMATE	
Mamu-A*01	
Mamu-A*04	
Mamu-A*08	
Mamu-B*17	

© Immudex ApS. Denmark, 2021

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