

Reliable Identification of SARS-CoV-2-Specific T Cells

A deeper understanding of viral-specific T-cell responses to COVID-19 is needed to explore vaccine responses, long-term immunity, predict patients at risk, and even prepare for the next pandemic.

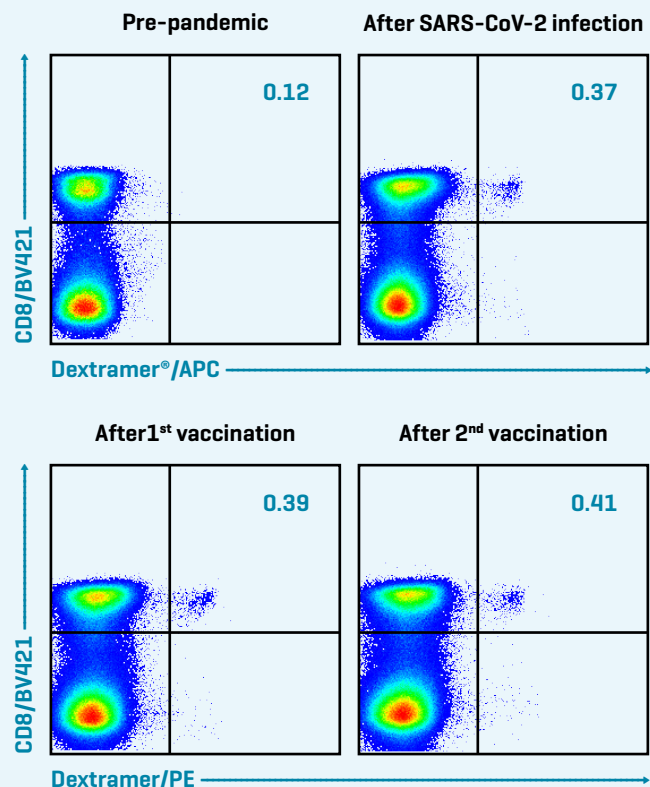
T Cells Take the Lead in COVID-19

SARS-CoV-2-specific CD8⁺ and CD4⁺ T cells are present for at least a year after infection with COVID-19.

Functional T cells targeting multiple antigens of SARS-CoV-2 are detected in mild and severe COVID-19, as well as asymptomatic individuals.

COVID-19-specific CD8⁺ T Cells in Disease and Vaccination:

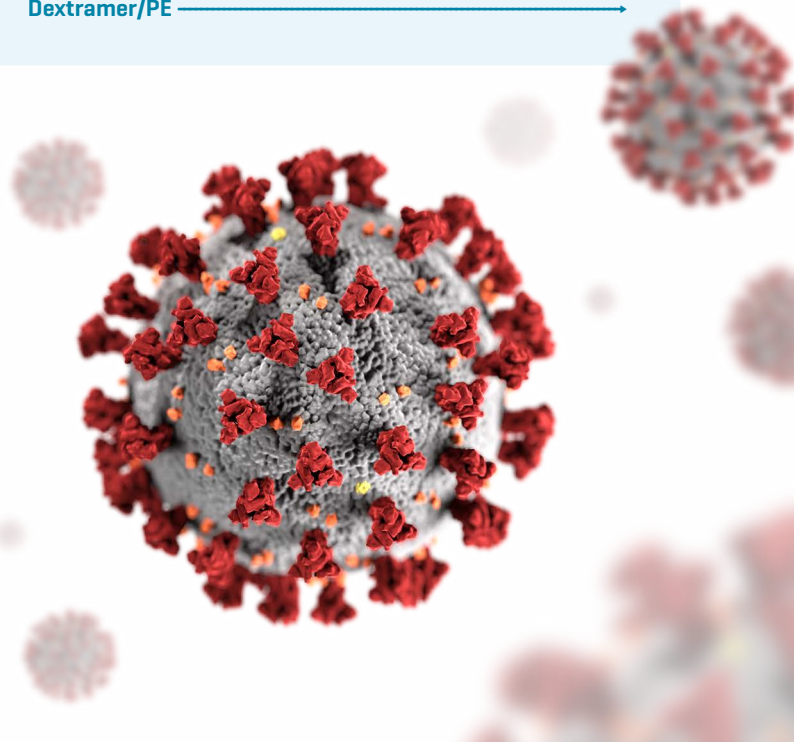
Frequencies of SARS-CoV-2-specific CD8⁺ T cells detected in PBMCs at different time points from a vaccinated convalescent donor with a SARS-CoV-2 MHC I Dextramer[®] Panel.



Valuable Insights for Your Covid-19 Research

Dextramer[®] technology can help you characterize SARS-CoV-2-specific CD4⁺ and CD8⁺ T cells in blood, without missing rare or low-affinity cells, in an easy and reproducible way.

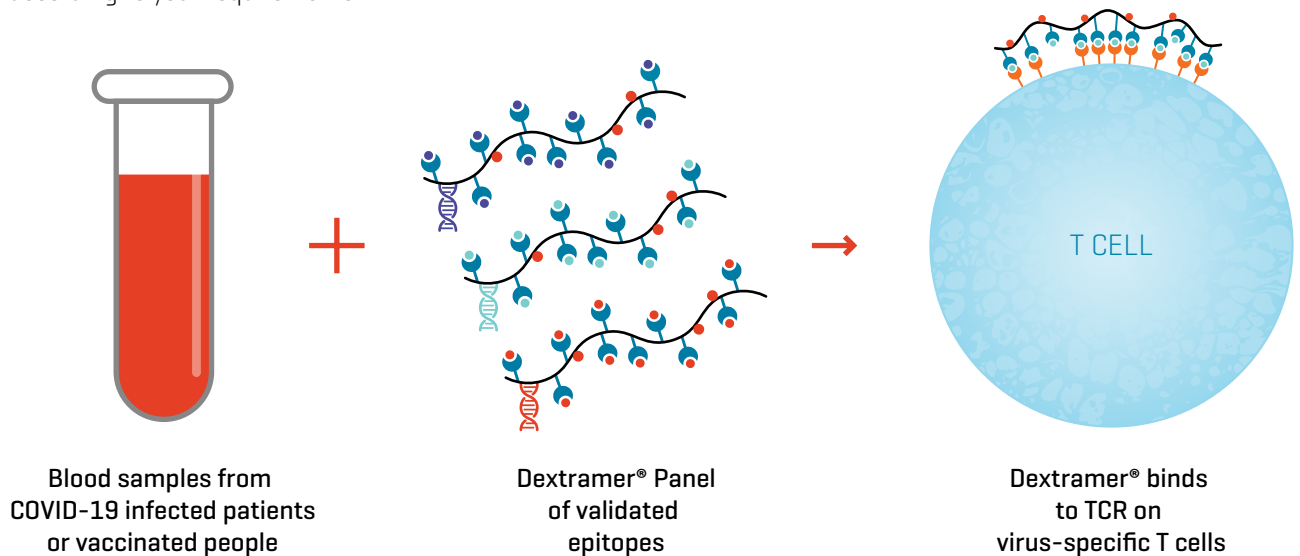
- Understand the specificity, frequency, and durability of the T-cell response
- Understand which viral epitopes are preferentially targeted by T cells
- Monitor virus-specific T cells by flow cytometry, NGS, and single-cell multi-omics



Reliable Tools for Precision Immune Monitoring

Monitoring T-cell responses to a range of epitopes enables researchers to understand which viral proteins [e.g., spike, nucleocapsid] are preferentially targeted by T cells. This information is crucial for vaccine development and may uncover new targets for immunotherapy.

Immudex provides SARS-CoV-2-specific Dextramer® Panels with curated selections of validated T-cell epitopes. You can download the full list of published epitopes from our website and, if necessary, adjust the panels according to your requirements.



SARS-CoV-2-Specific Dextramer® Reagents and Panels

Dextramer® reagents are available as single reagents or panels. Reach out to us at customer@immudex.com or visit our website www.immudex.com/COVID-19 for additional Dextramer® specificities for your research. Single Reagents and Panels are available as:

Dextramer® Reagent	Product description
MHC Dextramer®	For identification of antigen-specific CD8+ or CD4+ T cells in blood by flow cytometry
dCODE Dextramer® (HiT)	For bulk analysis of antigen-specific CD8+ or CD4+ T cells by PCR and NGS
dCODE Dextramer® (RiO, 10x)	For single-cell multi-omic analysis of antigen-specific CD8+ or CD4+ T cells with information on TCR sequencing, gene expression, and surface protein expression using BD Rhapsody™ system or the 10x Chromium Single Cell analysis platform

© Immudex ApS. Denmark, 2022

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