

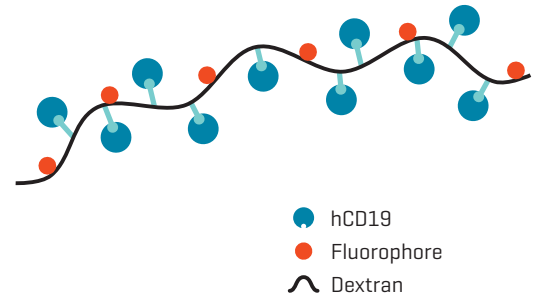
CAR Cell Therapy

CAR Dextramer[®] hCD19 for Sensitive Detection and Characterization of CD19-Specific CAR-T Cells

CAR Dextramer[®] reagents enhance sensitivity, enabling the reliable detection of even lowly expressed CARs using a rapid one-step staining protocol.

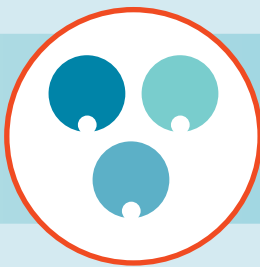
CAR Dextramer[®] for certain targets are already available.

Our expert team can also design custom CAR Dextramer[®] reagents for you, based on your specific targets.



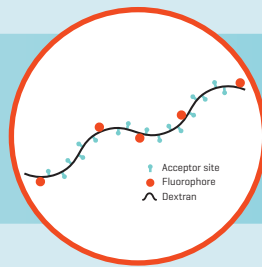
Interested in Other Targets?

Choose your target antigen



BCMA, CD22, HER2...

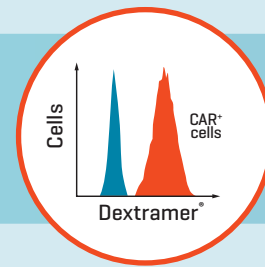
Select reagent(s)



We make the reagent for you



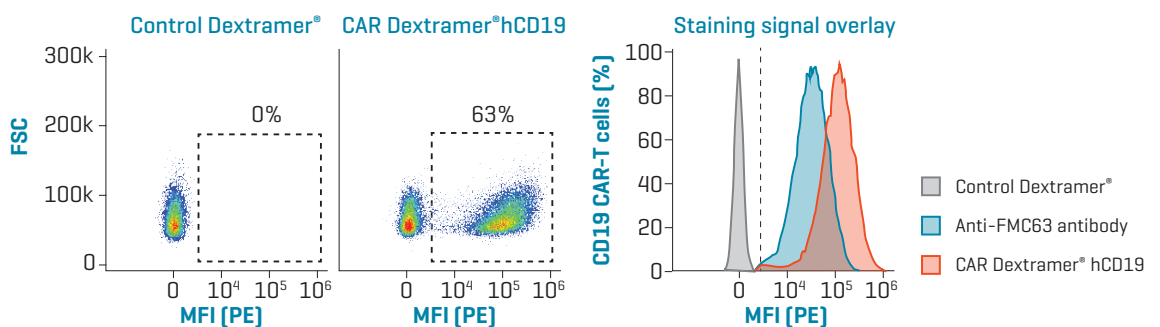
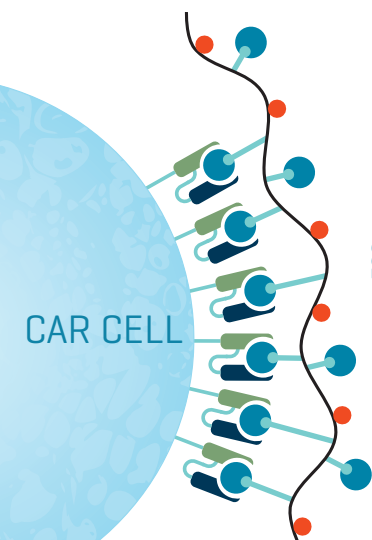
Detect and characterize your CAR cells



Assess % of target-specific Dextramer[®]-positive cells by flow cytometry

Superior CAR Cell Detection with CAR Dextramer[®] hCD19

CAR Dextramer[®] hCD19 exhibits higher mean fluorescence intensity (MFI) compared to another anti-CD19 CAR detection reagent, resulting in superior staining brightness and enhanced detection sensitivity.



Primary human CD19 CAR-T cells stained with PE-labelled CAR Dextramer[®] hCD19 or a commercially available anti-FMC63 idiotype antibody. Control Dextramer[®] was used as negative control.

FDA Guidance for CAR-T Cell Products

The most recent guidance from the FDA regarding the development of CAR-T cell products includes recommendations for detecting and evaluating the CAR product.

Our products can assist you in adhering to this guidance.



Manufacturing and Lot Release

“Control of the manufacturing process and appropriate in process and lot release testing are crucial to ensure CAR-T cell safety, quality and lot-to-lot consistency.”

Direct Detection of CAR-T cells

“Direct detection of the CAR to determine the percentage of CAR-positive cells.”

CAR-T levels in Starting Material

“If pre-treated with another CAR-therapy, evaluation of the previously administered CAR T cell levels in the cellular starting material may be appropriate.”

Antigen Recognition of CAR Construct

“Assess the ability of each antigen recognition domain to specifically bind to its target.”

Transduced T cells and Biological Activity

FDA recommends to examine “uncontrolled proliferation, in vitro and in vivo testing for T cell clonality, karyotypic analysis, TCR repertoire analysis, and specificity for viral antigens through ex vivo stimulation and recognition assays” to document the biological activity of transduced T cells.

CAR Dextramer® - Direct Detection

CAR Dextramer® enables direct CAR detection for development of assays to assess the % of CAR-positive cells for lot release testing or for evaluation of starting material by flow cytometry.

CAR Dextramer® - Functional Detection

The CAR receptor is detected in the same way it encounters the target antigen.

MHC Dextramer®

Available for a wide range of viral specificities for evaluation by flow cytometry.

dCODE® Technology

Characterize the clonality and TCR repertoire of antigen-specific TCRs through V[D]J sequencing.

CAR Dextramer® - Easy and Reliable Detection of CAR Cells

Enables Immune Profiling

Allows concurrent detection of immune markers, e.g. CCR7 and CD45RA

Sensitive Detection

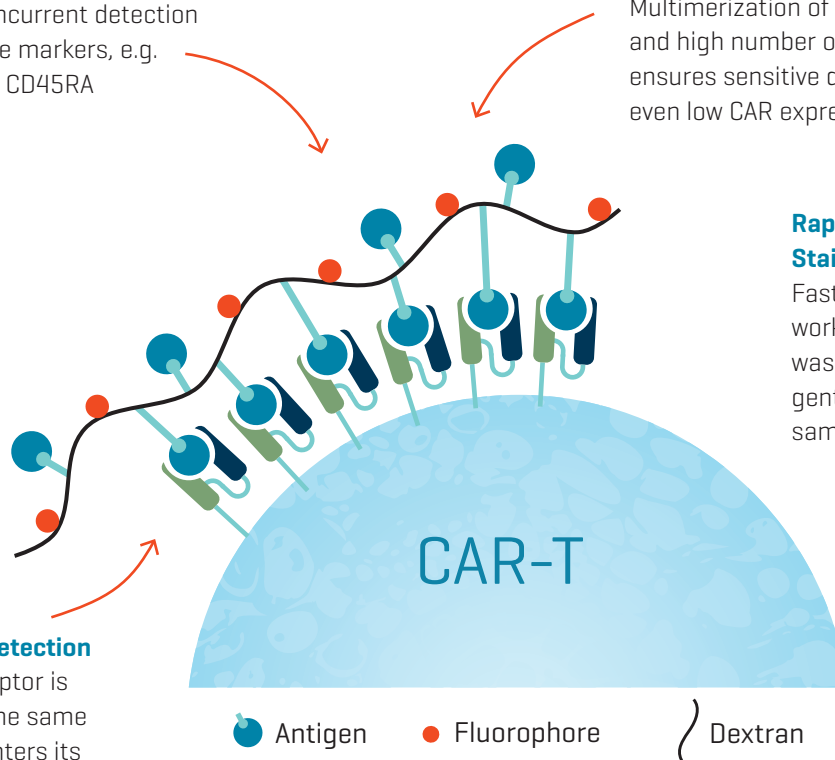
Multimerization of target proteins and high number of fluorochromes ensures sensitive detection of even low CAR expression

Rapid One-Step Staining Protocol

Fast and easy workflow with minimal washing, ensuring gentle handling of cell samples

Functional Detection

The CAR receptor is detected in the same way it encounters its target antigen



Catalog Number	Product Name/Description	Test Size	Dye
CT001C	CAR Dextramer®, hCD19	50 tests	PE
DS006	Custom CAR Dextramer® [designed based on your target antigen]	On request	On request

Interested in learning more? Please contact us at customer@immudex.com

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