

CAR Cell Therapy

IMMUDEx
PRECISION IMMUNE MONITORING

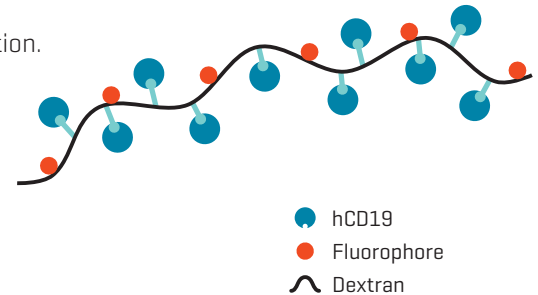
CAR Dextramer® hCD19 for Rapid Detection and Characterization of CD19-Specific CAR-T Cells

CAR Dextramer® is a rapid and easy-to-use reagent for CAR cell detection.

This antigen-based reagent serves two purposes:

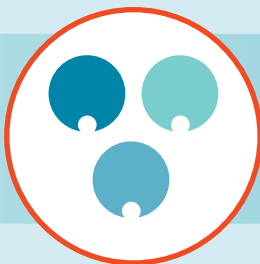
- demonstrate CAR **presence** on the cell surface
- confirm CAR **binding** to its target antigen.

CAR Dextramer® can also be custom-designed for your specific target
– ideal for novel CARs and non-ScFv based constructs.



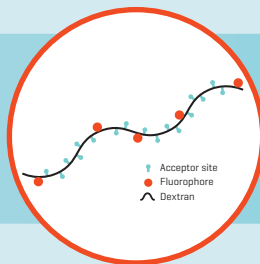
Interested in Other Targets?

Choose your
target antigen



BCMA, CD22, HER2...

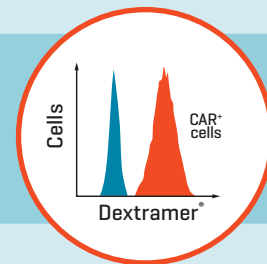
Select
reagent(s)



We make the
reagent for you



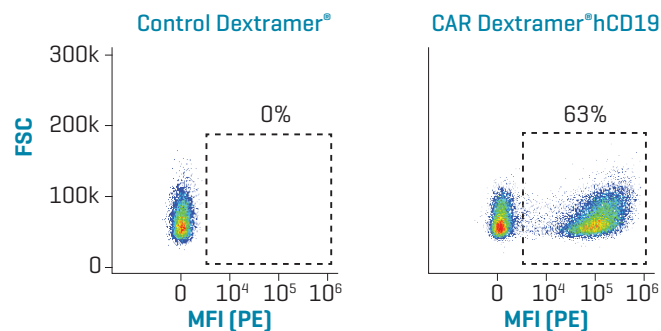
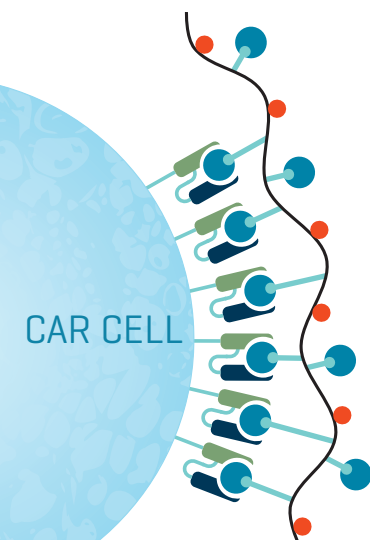
Detect and
characterize
your CAR cells



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

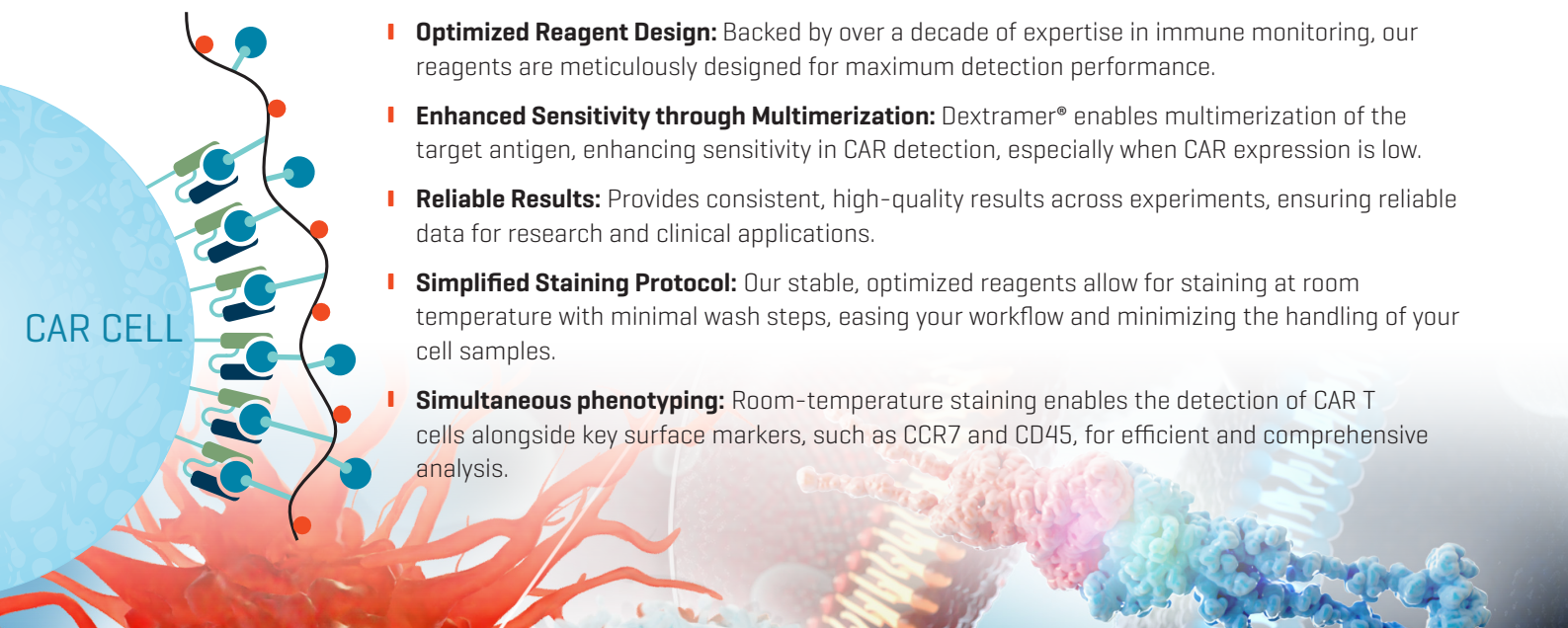
Streamlined Workflow with CAR Dextramer® hCD19

Experience a faster, more efficient process with quick staining and direct detection of CAR cells. CAR Dextramer® hCD19 provides precise confirmation of receptor expression and directly verifies the CAR's ability to recognize its target antigen.



Primary human CD19 CAR-T cells stained with PE-labelled CAR Dextramer® hCD19. Control Dextramer® was used as negative control.

Enhance CAR Cell Detection with CAR Dextramer[®]



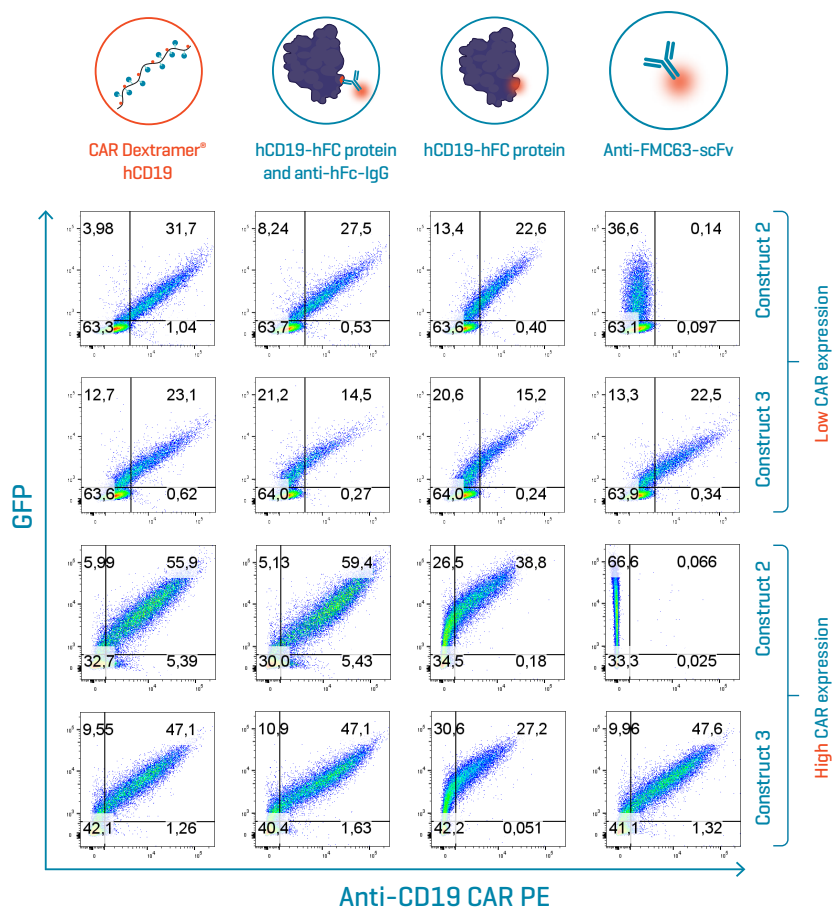
Superior Detection of CD19 CAR Cells with Low CAR Expression

Our collaborator tested the performance of CAR Dextramer[®] hCD19 in detecting two different anti-CD19 CAR constructs across two CAR-T cell lines [one with low CAR expression and another with high CAR expression].

- Reliable** – CAR Dextramer[®] effectively detects both CD19 CAR constructs with high staining intensity.
- Sensitive** – CAR Dextramer[®] is more effective than other staining reagents in detecting CD19 CAR-T cells with low CAR expression.
- Faster Workflow** – rapid one-step staining protocol and fewer wash steps.

Data kindly provided by collaborator

BIONTECH



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.



 **READ THE
FDA 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."

CAR Dextramer® - Direct Detection

Reliable high-quality reagents for CAR cell quantification and lot release testing, or for evaluation of starting material by flow cytometry.

Direct antigen-based detection of CAR cells also verifies CAR identity.

Confirm CAR Binding Specificity

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

CAR Dextramer®

Antigen-based detection confirms binding specificity.

Comprehensive Characterization of Transduced T Cells

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.

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.

Xynapse™-T

Antigen-specific T cell activation and expansion [substitute for APCs].

Identification and Mitigation of On-target/Off-tumor Toxicities

"Undesired targeting of healthy/normal tissues [on-target/off-tumor] – for example, tissue cross-reactivity studies..."

Custom Dextramer® reagents

Antibody multimers enable multivalent binding for sensitive detection of antigen expression in on/off-target tissues.

Supports comprehensive specificity assessment.

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

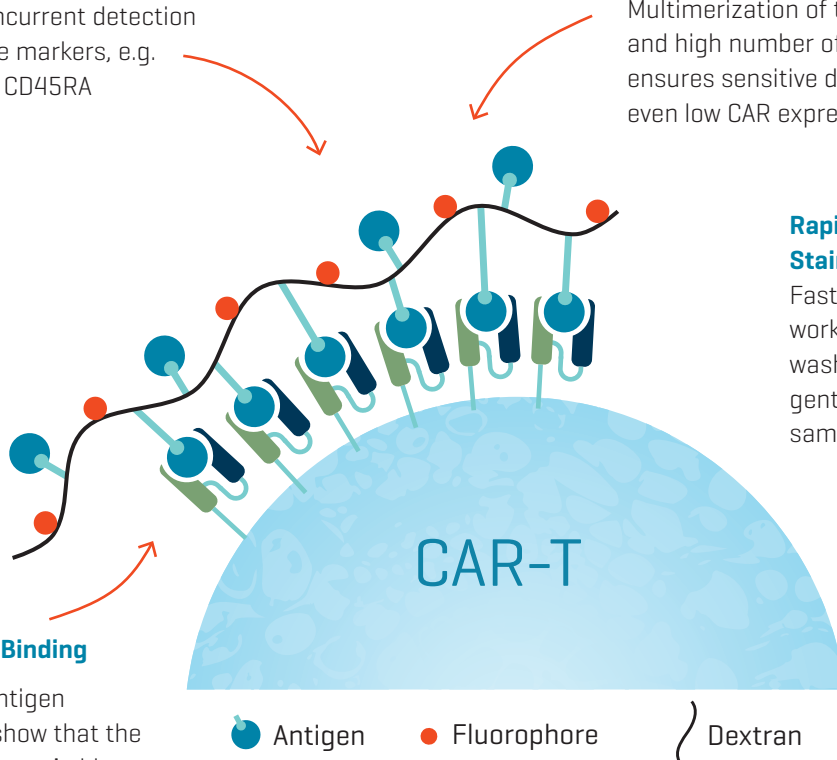
Multimerization of target proteins and high number of fluorochromes ensures sensitive detection of even low CAR expression

Rapid One-Step Staining Protocol

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

Confirm CAR Binding

Direct CAR-antigen interactions show that the CAR is present **and** able to bind 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



Your distributor in Switzerland

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