CAR Detection Reagents

InnoCyto

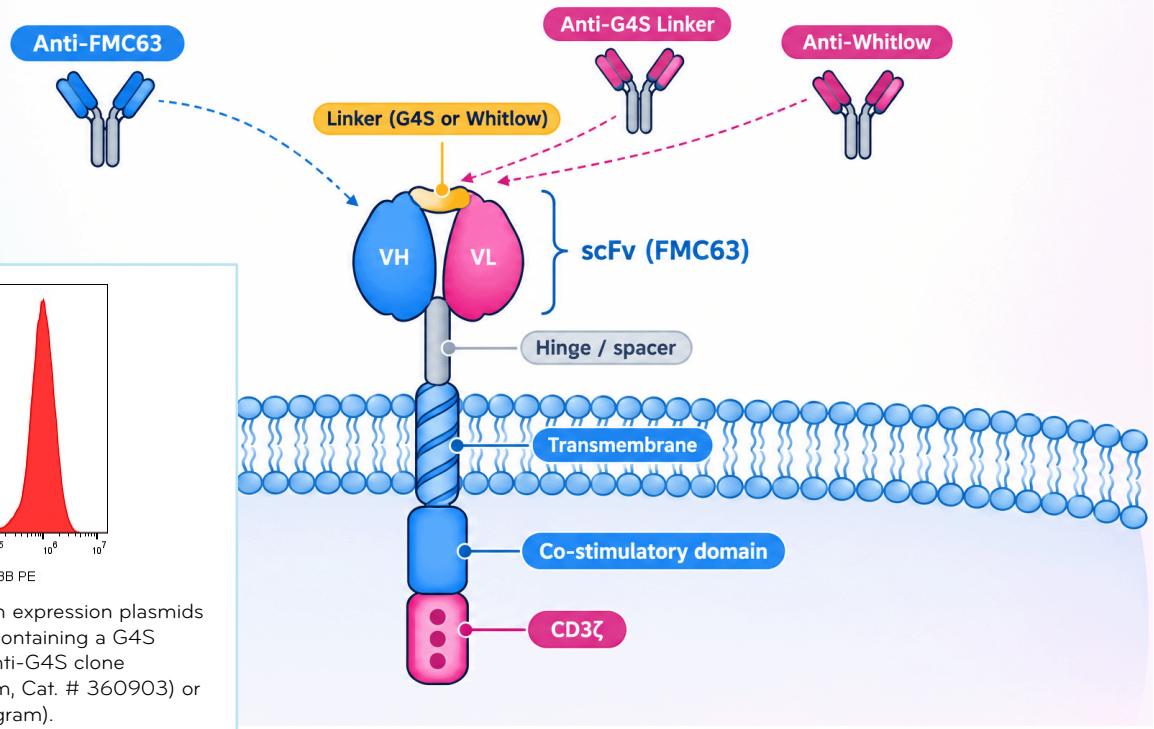
Detecting CAR-T Cells with Confidence

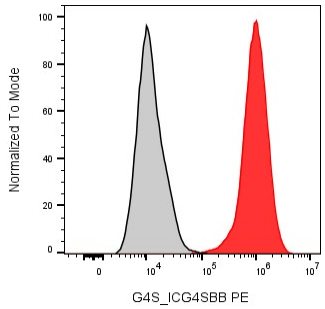
Chimeric antigen receptor (CAR) T-cell therapy has changed how researchers approach cancer and, increasingly, autoimmune disease. Every CAR-T study depends on one basic measurement: knowing whether the engineered cells express the receptor, how much they express, and where. Accurate CAR detection supports transduction efficiency checks, manufacturing and lot-release QC, tracking of persistence and expansion *in vitro* and *in vivo*, and correlating receptor density with potency and exhaustion.

Our CAR Detection Reagents bind conserved structural elements of the CAR itself, so detection doesn't depend on target antigen. They include antibodies against the FMC63 scFv, the Whitlow/218 linker, and the G4S linker. Together they give flow cytometry and imaging workflows several complementary ways to detect CAR-expressing cells.

Target	Antibody Clone	Formats (Catalog #)
FMC63 scFv	FMC63IDAB	APC (360705), PE (360703), Purified (360701)
Whitlow/218	1B4A1	APC (360805), PE (360803), Purified (360801)
G4S	ICG4SBB	APC (360905), PE (360903), Purified (360901)

Anatomy of a CAR: Where Our Detection Antibodies Bind





HEK293 cells transfected with expression plasmids encoding CAR-T constructs containing a G4S linker were stained with PE Anti-G4S clone ICG4SBB (red-filled histogram, Cat. # 360903) or an isotype control (gray histogram).

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