

PathScan[®] RP G4S Linker/CD3ζ CAR Sandwich ELISA Kit

1 Kit (96 assays)



Cell Signaling

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Product #	Quantity	Color	Storage Temp
40560	96 tests		+4C
55714	1 ea	Red (Lyophilized)	+4C
13515	5.5 ml	Red	+4C
7004	11 ml		+4C
7002	11 ml		+4C
54503	2 ea		+4C
9801	25 ml		+4C
9803	15 ml		-20C
	Product # 40560 55714 13515 7004 7002 54503 9801 9803	Product # Quantity 40560 96 tests 55714 1 ea 13515 5.5 ml 7004 11 ml 7002 2 ea 9801 25 ml 9803 15 ml	Product #QuantityColor4056096 tests557141 eaRed (Lyophilized)135155.5 mlRed700411 ml-70022 ea-980125 ml-980315 ml-

Kit contents scale proportionally with size, except sealing tape.

Example: The V1 kit contains 5X the listed quantities above, but will exclude the sealing tape.

The microwell plate is supplied as 12 8-well modules - Each module is designed to break apart for 8 tests.

Description	The rapid protocol (RP) PathScan [®] RP G4S Linker/CD3ζ CAR Sandwich ELISA Kit is a solid phase sandwich enzyme-linked immunosorbent assay (ELISA) that detects scFv-based chimeric antigen receptors (CARs) containing a G4S linker and a CD3ζ signaling domain in a reduced assay time of 1.5 hours. Incubation of cell lysates and detection antibody on the coated microwell plate forms a sandwich with CARs containing a G4S linker in a single step by using one antibody that recognizes CD3ζ and another antibody that recognizes the G4S linker. The plate is then extensively washed and TMB reagent is added for signal development. The magnitude of absorbance for the developed color is proportional to the quantity of scFv-based CARs containing a G4S linker and a CD3ζ signaling domain. Learn more about your ELISA kit options here.
Specificity/Sensitivity	The PathScan [®] RP G4S Linker/CD3ζ CAR Sandwich ELISA Kit detects exogenously expressed levels of scFv-based CARs containing a G4S linker and a CD3ζ signaling domain by using one antibody that recognizes CD3ζ and another antibody that recognizes the G4S linker. The kit sensitivity is shown in Figure 1.
Background	The poly-Glycine-Serine (G4S) linker is a type of flexible, unstructured synthetic peptide linker sequence often leveraged to connect the variable heavy (VH) domain and variable light (VL) domain of single- chain variable fragments (scFvs) and chimeric antigen receptors (CARs) that utilize an extracellular domain scFv for target antigen recognition. The linker itself consists of a core pentapeptide sequence, Gly-Gly-Gly-Ser, that is repeated and commonly found as either a 15-mer (G4S) ₃ or 20-mer (G4S) ₄ within scFv-based CARs and scFv fragments. The linker sequence length plays a role in controlling scFv stability and the noncovalent association between the VH and VL domains (1,2).
Background References	1. Huston, J.S. et al. (1988) <i>Proc Natl Acad Sci USA</i> 85, 5879-83. 2. Chen, X. et al. (2013) <i>Adv Drug Deliv Rev</i> 65, 1357-69.
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