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#71645**G4S Linker (E7O2V) Rabbit mAb** [Update browser](#)
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Applications: W-S, FC-L	Reactivity: All	Sensitivity: Transfected Only	Source/Isotype: Rabbit IgG
Product Usage Information	Application Simple Western™ Flow Cytometry (Live)	Dilution 1:50 1:50 - 1:200	
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/mL BSA, 50% glycerol, and less than 0.02% sodium azide. Store at -20°C. <i>Do not aliquot the antibody.</i> For a carrier free (BSA and azide free) version of this product see product #63670.		
Specificity/Sensitivity	G4S Linker (E7O2V) Rabbit mAb recognizes exogenously expressed levels of scFv-based CARs containing a G4S linker.		
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide containing three Gly4Ser repeats.		
Description	This Cell Signaling Technology antibody is tested in-house for indirect flow cytometric analysis in human cells and is expected to react with cell surface expressed CARs of varying specificity, which contain a G4S linker within the scFv of the extracellular domain.		
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-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.		

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key **W-S:** Simple Western™ **FC-L:** Flow Cytometry (Live)

Cross-Reactivity Key **All:** All Species Expected

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