

G4S Linker (E7O2V) Rabbit mAb (Alexa Fluor® 700 Conjugate)

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:
FC-L	All	Transfected Only	Rabbit IgG
Product Usage Information	Application Flow Cytometry (Live)		
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide, and 2 mg/mL BSA. Store at 4°C. <i>Do not aliquot the antibody. Protect from light. Do not freeze.</i>		
Specificity/Sensitivity	G4S Linker (E7O2V) Rabbit mAb (Alexa Fluor® 700 Conjugate) 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 conjugated to Alexa Fluor® 700 fluorescent dye under optimal conditions and tested in-house for direct flow cytometric analysis in human cells. This antibody conjugate is expected to exhibit the same reactivity as the unconjugated G4S Linker (E7O2V) Rabbit mAb #71645, which is expected to react with cell surface-expressed CARs of varying specificity containing 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	FC-L: Flow Cytometry (Live)
Cross-Reactivity Key	All: All Species Expected
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