

Store at
-20C
#17621**G4S Linker (E7O2V) Rabbit mAb
(Biotinylated)**
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For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications: | Reactivity: | Sensitivity: | Source/Isotype: |
|----------------------------------|--|------------------|-----------------|
| FC-L | All | Transfected Only | Rabbit IgG |
| Product Usage Information | Application | Dilution | |
| | Flow Cytometry (Live) | 1:50 | |
| Storage | Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/mL BSA, and 50% glycerol. Store at -20°C. <i>Do not aliquot the antibody.</i> | | |
| Specificity/Sensitivity | G4S Linker (E7O2V) Rabbit mAb (Biotinylated) 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 biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated G4S Linker (E7O2V) Rabbit mAb #71645. | | |
| 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 | <ol style="list-style-type: none"> Huston, J.S. et al. (1988) <i>Proc Natl Acad Sci USA</i> 85, 5879-83. 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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