

Store at
-20°C
#63670

G4S Linker (E7O2V) Rabbit mAb (BSA and Azide Free)



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	Source/Isotype:
FC-L, ELISA	H All	Endogenous	Rabbit IgG
Product Usage Information	<p>This product is the carrier free version of product #71645. All data were generated using the same antibody clone in the standard formulation which contains BSA and glycerol.</p> <p>This formulation is ideal for use with technologies requiring specialized or custom antibody labeling, including fluorophores, metals, lanthanides, and oligonucleotides. It is not recommended for ChIP, ChIP-seq, CUT&RUN or CUT&Tag assays. If you require a carrier free formulation for chromatin profiling, please contact us. Optimal dilutions/concentrations should be determined by the end user.</p> <p>BSA and Azide Free antibodies are quality control tested by size exclusion chromatography (SEC) to determine antibody integrity.</p>		
Formulation	<p>Supplied in 1X PBS (10 mM Na₂HPO₄, 3 mM KCl, 2 mM KH₂PO₄, and 140 mM NaCl (pH 7.8)). BSA and Azide Free.</p> <p>For standard formulation of this product see product #71645</p>		
Storage	<p>Store at -20°C. <i>This product will freeze at -20°C so it is recommended to aliquot into single-use vials to avoid multiple freeze/thaw cycles.</i> A slight precipitate may be present and can be dissolved by gently vortexing. This will not interfere with antibody performance.</p>		
Specificity/Sensitivity	<p>G4S Linker (E7O2V) Rabbit mAb (BSA and Azide Free) recognizes exogenously expressed levels of scFv-based CARs containing a G4S linker.</p>		
Source / Purification	<p>Monoclonal antibody is produced by immunizing animals with a synthetic peptide containing three Gly4Ser repeats.</p>		
Description	<p>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.</p>		
Background	<p>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).</p>		
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) ELISA: ELISA
Cross-Reactivity Key	H: Human All: All Species Expected
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