

#90841 Store at +4C

G4S Linker (E7O2V) Rabbit mAb (Alexa Fluor® 532 Conjugate)



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: FC-L	Reactivity: All	Sensitivity: Transfected Only	Source/Isotype: Rabbit IgG
Product Usage Information	Application Flow Cytometry (Live)		
Storage	Dilution 1:50		
Specificity/Sensitivity	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>		
Source / Purification	G4S Linker (E7O2V) Rabbit mAb (Alexa Fluor® 532 Conjugate) recognizes exogenously expressed levels of scFv-based CARs containing a G4S linker.		
Description	Monoclonal antibody is produced by immunizing animals with a synthetic peptide containing three Gly4Ser repeats.		
Background	This Cell Signaling Technology® antibody is conjugated to Alexa Fluor® 532 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 References	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).		
	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

Trademarks and Patents Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

Alexa Fluor is a registered trademark of Life Technologies Corporation.

This product is provided under an intellectual property license from Life Technologies Corporation. The transfer of this product is conditioned on the buyer using the purchased product solely in research conducted by the buyer, excluding contract research or any fee for service research, and the buyer must not (1) use this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; or (c) manufacturing or quality assurance or quality control, and/or (2) sell or transfer this product or its components for resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@lifetech.com.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless

separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.

Orders: 877-616-CELL (2355) • orders@cellsignal.com • Support: 877-678-TECH (8324) • info@cellsignal.com • Web: cellsignal.com
For Research Use Only. Not for Use in Diagnostic Procedures.