Revision 5

Store at -20C

#17621

G4S Linker (E7O2V) Rabbit mAb (Biotinylated)

Cell Signaling TECHNOLOGY®

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:	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 KCI, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/mL BSA, and 50% glycerol. Store at –20°C. *Do not aliquot the antibody.*

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

1. Huston, J.S. et al. (1988) *Proc Natl Acad Sci USA* 85, 5879-83.
2. Chen, X. et al. (2013) *Adv Drug Deliv Rev* 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

Limited Uses

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.