



Magic™ Rabbit Anti-G4S linker monoclonal antibody, clone H2 [FITC] (CABT-L0438YF)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Detects scFV-based CARs containing (G4S) _n linker (n≥2).
Immunogen	Synthetic peptide containing 2 to 5 Gly4Ser repeats
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	N/A
Clone	H2
Conjugate	FITC
Applications	FC: 5 µL/test, in 100-200 µL with ~1×10 ⁶ cells Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
Format	Purified, Liquid
Concentration	Lot specific
Size	125 µl, 500 µl
Buffer	PBS (pH 7.2) containing 0.03% Proclin 300 and 5 mg/ml BSA
Storage	Store at 4°C.

BACKGROUND

Introduction

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.

Keywords

G4S linker; Poly-Glycine-Serine linker; Poly-Glycine-Serine
