**产品名称：Anti-G4S linker Rabbit Monoclonal antibody**

**产品货号：AMRe90004**

## 产品概述（Summary）

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| **产品名称（Production Name）** | Anti-G4S linker Rabbit Monoclonal antibody |
| **描述（Description）** | Rabbit Monoclonal antibody |
| **宿主（Host）** | Rabbit |
| **应用（Application）** | FC |
| **种属反应性（Reactivity）** | All species expected |
| **特异性（Specificity/Sensitivity）** | Detects scFV-based CARs containing (G4S)n linker (n≥2). |

## 产品性能（Performance）

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| **偶联物（Conjugation）** | Unconjugated |
| **修饰（Modification）** | Unmodified |
| **同种型（Isotype）** | IgG1 |
| **克隆（Clonality）** | Monoclonal （B02H1） |
| **形式（Form）** | Liquid |
| **存放说明（Storage）** | Store at 4°C short term. Aliquot and store at -20°C, valid for 12 months. Avoid freeze/thaw cycles. |
| **储存溶液（Buffer）** | Phosphate-buffered solution (pH 7.2), containing 0.03% Proclin 300 and 5 mg/ml BSA. |

## 免疫原信息（Immunogen）

Immunizing rabbit with a synthetic peptide containing 2 to 5 Gly 4 Ser repeats.

## 产品应用（Application）

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|---|---|
| **稀释比（Dilution Ratio）** | For FACS Analysis，5 μL/test, in 100-200μL with ~1×$10^6$ cells |

## 研究背景（Background）

Anti-G4S linker (B02H1) mAb is produced by immunizing rabbits with a mixture of containing 2 to 5 Gly 4 Ser repeats. The (G4S)n linker is a commonly used linker, which is flexible and resistant to enzyme digestion, and often used to link fusion proteins, such as single-chain variable fragments (scFv) or bispecific antibody. In particular, Anti-G4S linker (B02H1) mAb is expected to react with chimeric antigen receptors (CAR)-T cells contained (G4S)n connexin (n≥2) in the scFv of the extracellular domain.

## 研究领域（Research Area）

The (G4S)n–linker consists of 2~5 repeats of the pentapeptide Gly–Gly–Gly–Gly–Ser. The use of these residues is intended to confer flexibility and minimize the risk for interference of the linker with the proper folding and function of the connected protein domains. The (Gly4Ser)n linker is commonly used on the single-chain Fv (scFv) domain expressed on the surface of chimeric antigen receptors (CAR)-T cells to connect the variable weight (VH) and variable light (VL) domains.

## 参考文献（References）

1. Wu CW. et al. Biochemistry. 1976 Jun 29;15 (13): 2863-8.

2. Stoiber S. et al. Cells. 2019 May 17;8(5):472.

## 注意事项（Note）

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