MonoRab™ Rabbit Anti-scFv Cocktail [iFluor 647]

Cat. No.: A02288

Overview

Specificity	This product is specific for scFvs in different species (humanized, mouse) and different orders (VH-linker-VL, VL-linker-VH). It can also recognize various forms of scFv-based bispecific antibodies, such as DART, BiTE, TandAbs, IgG(H)-scFv2, scFv-Fab-Fc, etc.
Host Species	Rabbit
Immunogen	This information is confidential and belongs to GenScript.
Conjugate	iFluor 647

Applications

Working concentrations for specific applications should be determined by the investigators. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.
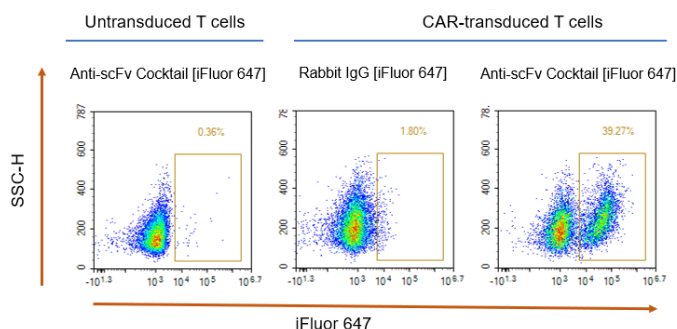
Application	Recommended Usage
Flow Cytometry	1 µg/ml-10 µg/ml

Properties

Form	Liquid
Storage Buffer	Supplied in PBS (pH 7.2), containing 10 mg/ml BSA, 0.02% sodium azide and 50% glycerol.
Concentration	0.5 mg/ml
Storage Instructions	Store at -20°C and it should be protected from prolonged exposure to light. This product is stable for 1 year upon receipt, when handled and stored as instructed.
Purification	Protein A affinity column
Isotype	Rabbit IgG, κ
Clonality	Monoclonal antibody cocktail

Note	GenScript can customize this product per customer's request including product size, buffer components, etc.

Examples

Flow cytometric analysis of scFv-based CAR-T cells using MonoRab™ Rabbit Anti-scFv Cocktail [iFluor 647] (GenScript, A02288). The untransduced T cells and concentration-matched Rabbit IgG [iFluor 647] (GenScript, A02026) were used as controls.

The results show that MonoRab™ Rabbit Anti-scFv Cocktail can achieve good cell clustering for CAR-transduced T cells and show minimal non-specificity for untransduced T cells.

Background

Target Background : A single chain fragment variable (scFv) is a type of recombinant antibody. It is approximately 25 kDa and consists of the variable regions of the heavy (VH) and light (VL) chains of an antibody, which are connected by a flexible peptide linker. scFvs have several advantages, including their small molecular weight, strong penetration, and high specificity. They play crucial roles in targeted therapy, imaging diagnosis, and biological detection. Importantly, in the field of cell therapy, scFvs can act as the antigen recognition domain of CAR-T cells and determine the targeting ability of these cells.

Synonyms : scFv; Single-chain fragment variable; Nanobody; Single chain antibody; VH and VL of an antibody; Single-chain variable region fragment; Single-chain fv; VH-linker-VL; VL-linker-VH

For research use only. Not intended for human and animal therapeutic or diagnostic use.

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