KeyTec[®] TR-FRET mAb anti-GST-Solar Eu



CAT. & Size A1020005S (1,000 tests) A1020005L (10,000 tests) Storage at -60°C or below VKEYBIO-01-2024 For Research Use Only Not For Diagnostic Or Therapeutic Use

KeyTec® TR-FRET

mAb anti-GST-Solar Eu

Instruction Manual

1. Introduction

KeyTec® TR-FRET mAb anti-GST-Solar Eu is designed for developing the TR-FRET Assay. The anti-GST antibody is a mouse monoclonal antibody. In the Protein-Protein Interaction assay, one GST-tagged protein binds to the donor (KeyTec® TR-FRET mAb anti-GST-Solar Eu^{*1}), and the other protein is labeled (directly or indirectly) with the acceptor (KeyTec® TR-FRET LA/HX^{*2}). When the two proteins interact, the donor molecule is brought into proximity with the acceptor molecule. Excitation of the donor will result in the generation of the TR-FRET signal at 665 nm, proportional to the extent of protein interaction.

*¹ KeyTec[®] TR-FRET Solar Eu: TR-FRET Donor Molecule

*² KeyTec[®] TR-FRET LA/HX: TR-FRET Acceptor Molecule

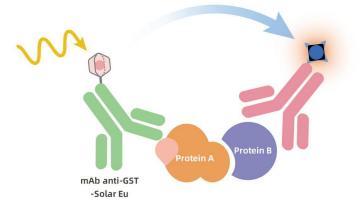


Figure 1. KeyTec® TR-FRET Protein-Protein Interaction assay model



2. Components

Components	A1020005S (1,000 tests)	A1020005L (10,000 tests)
KeyTec [®] TR-FRET	1 vial	1 vial
mAb anti-GST-Solar Eu (100X)	50 μL/vial	500 μL/vial
KeyTec [®] Materials Required But Not Supplied		CAT. & Size
KeyTec [®] TR-FRET Binding Assay Diluent Buffer		A1010001L
		(200 mL)
KeyTec [®] TR-FRET Solar Eu Detection Buffer		A1010002L
		(120 mL)
KeyTec [®] 384-Well White Flat Low-Volume Microplates,		M2000102N
PS, Solid, Non-treated, No lid		(40 Pcs/Box)
KeyTec [®] Fluorescent High-Transparency Microplate Top S	Seals	M1000102N
Regree Theorescent right ransparency microplate rop	56015	(100 Pcs/Box)

3. Storage Conditions

- Upon receipt, store the reagent below -60
- Up to 1 years from date of receipt, when stored and handled as recommended.
- When first thaw, aliquot the reagents as needed to avoid multiple freeze-thaw cycles.



4. Assay Procedure

4.1 Assay Format

Assay Format	Total Volume (20 μL³)
Other assay components	10 µL
KeyTec [®] TR-FRET Donor (Solar Eu/Tb) working solution (1X)	5 μL
KeyTec [®] TR-FRET Acceptor (LA/HX) working solution (1X)	5 μL

*³ The assay volume is optimized for 384-well microplates, and can be adjusted proportionally to perform in 96- or 1536-well microplates.

4.2 Reagents Handling

1) Buffers

- KeyTec[®] TR-FRET Solar Eu Detection Buffer (A1010002L) has been optimized for maximum performance.
- Use the same buffer to prepare both the donor and the acceptor (LA/HX) conjugates.
- KeyTec[®] TR-FRET Binding Assay Diluent Buffer (A1010001L) is recommended for dilution and preparation of other components or samples.
- If using a homemade buffer solution, avoid SDS and ensure KF addition.

2) Conjugates

- Thaw reagents on ice and equilibrate to room temperature before use.
- Prepare working solutions as per the purchased product instructions. The stock solution for KeyTec[®] TR-FRET mAb anti-GST-Solar Eu is 100X; dilute 100 times for a 1X working solution. For example, mix 50 μL of the stock solution with 4950 μL of KeyTec[®] TR-FRET Solar Eu Detection Buffer for a 1X working solution.
- Optimal amounts per well can be further optimized based on different assay format and conditions.