# **KeyTec® TR-FRET mAb anti-GST-Solar Eu**



**CAT. & Size** A1020005S (1,000 tests) **VKEYBIO-02-2024** 

A1020005L (10,000 tests) For Research Use Only

Storage at -60°C or below 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.

<sup>\*2</sup> KeyTec® TR-FRET LA/HX: TR-FRET Acceptor Molecule

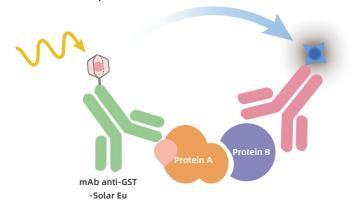


Figure 1. KeyTec® TR-FRET Protein-Protein Interaction assay model

<sup>\*1</sup> KeyTec® TR-FRET Solar Eu: TR-FRET Donor Molecule



# 2. Components

Components	A1020005S	A1020005L
	(1,000 tests)	(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
V T @ TD FDFT D' L' A D' LD (	A1010001L
KeyTec® TR-FRET Binding Assay Diluent Buffer	(200 mL)
K. T. ® TD FDFT C. I F. D. I I'm D. ff	A1010002L
KeyTec® TR-FRET Solar Eu Detection Buffer	(120 mL)
KeyTec® 384-Well White Flat Low-Volume Microplates,	M2000102N
PS, Solid, Non-treated, No lid	(40 Pcs/Box)
V. T. ® El Colo	M1000102N
KeyTec® Fluorescent High-Transparency Microplate Top Seals	(100 Pcs/Box)

# 3. Storage Conditions

- Upon receipt, store the reagent below -60 °C
- 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.

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# 4. Assay Procedure

## 1.1 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

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

### 1.2 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 storage 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 storage 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.

#### 1.3 Data Calculating

Calculate the ratio of 665 nm/615 nm (TR-FRET Ratio) and the CV for each individual well.

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