KeyTec® TR-FRET mAb anti-HIS-HX



CAT. & Size A1020004S (1,000 tests) **VKEYBIO-01-2024**

A1020004L (10,000 tests) For Research Use Only

Storage at -60°C or below Not For Diagnostic Or Therapeutic Use

KeyTec® TR-FRET

mAb anti-HIS-HX

Instruction Manual

1. Introduction

KeyTec® TR-FRET mAb anti-HIS-HX is designed for developing the TR-FRET Assay. The anti-HIS antibody is a mouse monoclonal antibody. In the Protein-Protein Interaction assay, one HIS-tagged protein binds to the acceptor (KeyTec® TR-FRET mAb anti-HIS- HX^{*1}), and the other protein is labeled (directly or indirectly) with the donor (KeyTec® TR-FRET Eu/Tb^{*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.

^{*2} KeyTec® TR-FRET Solar Eu/Tb: TR-FRET Donor Molecule

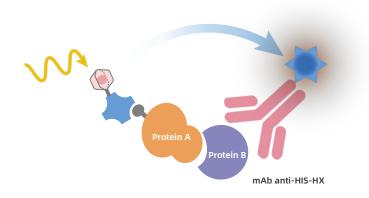


Figure 1. KeyTec® TR-FRET Protein-Protein Interaction assay mode

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^{*1} KeyTec® TR-FRET HX: TR-FRET Acceptor Molecule



2. Components

Components	A1020004S	A1020004L
	(1,000 tests)	(10,000 tests)
KeyTec® TR-FRET	1 vial	1 vial
mAb anti-HIS-HX (100X)	50 μL/vial	500 μL/vial

KeyTec® Materials Required But Not Supplied	CAT. & Size
Varitae® TD FDFT Diadia a Assau Diluant Duffer	A1010001L
KeyTec® TR-FRET Binding Assay Diluent Buffer	(200 mL)
Vol.Too® TD FDFT Color Fu Dotootion Duffer	A1010002L
KeyTec® TR-FRET Solar Eu Detection Buffer	(120 mL)
Karata and TD FDFT Calari The Data at large Double	A1010003L
KeyTec® TR-FRET Solar Tb Detection Buffer	(120 mL)
KeyTec® 384-Well White Flat Low-Volume Microplates,	M2000102N
PS, Solid, Non-treated, No lid	(40 Pcs/Box)
Vov.Toe® Chromosoph High Transparant Missanlata Top Coels	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.

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

^{*3} The system accommodates 384-well microplates, and assay volumes can be adjusted proportionally to perform in 96- or 1536-well microplates.

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1.2 Reagents Handling

1) Buffers

- KeyTec® TR-FRET Solar Eu/Tb Detection Buffer (A1010002L/A1010003L) has been optimized for maximum performance.
- Use the same buffer to prepare both the donor (Eu/Tb) and the acceptor conjugates.
- KeyTec® TR-FRET Binding Assay Diluent Buffer (A1010001L) is recommended for dilution and preparation of other assay components.
- If using a homemade buffer solution, avoid SDS 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-HIS-HX 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/Tb 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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