

# KeyTec® TR-FRET Human IgG & Fc detection kit



## Introduction

KeyTec® TR-FRET Human IgG/Fc Detection kits use immunoassay method and TR-FRET technology, with operation simplicity, rapidity, high sensitivity, and excellent repeatability. The product line includes two detection kits: KeyTec® TR-FRET Human IgG Detection Kit, based on the sandwich method, and KeyTec® TR-FRET Human Fc Detection Kit, based on the competitive method model. These kits are designed for quantitatively measuring human IgGs and proteins with Human Fc tags, respectively. Wide quantitative range: 2 ng/mL-50,000 ng/mL.

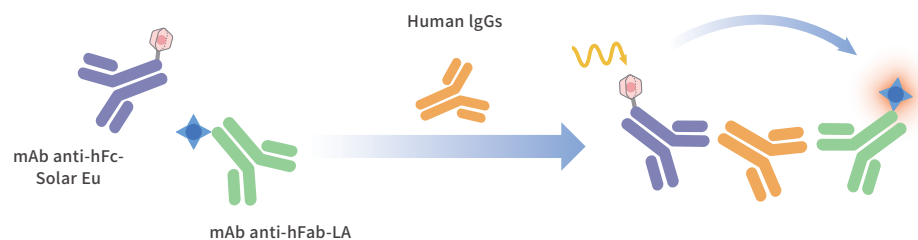
## Principle

KeyTec® TR-FRET Human IgG Detection Kit uses a sandwich method, quantitatively measuring human IgGs from the sample, by capturing them between anti-hFab-LA\*<sup>1</sup> and anti-hFc-Solar Eu\*<sup>2</sup>, resulting in the TR-FRET signal directly proportional to the concentration of IgGs in the standard or sample.

\* 1 KeyTec® TR-FRET LA: Fluorescence Resonance Energy Transfer Acceptor (TR-FRET Acceptor)

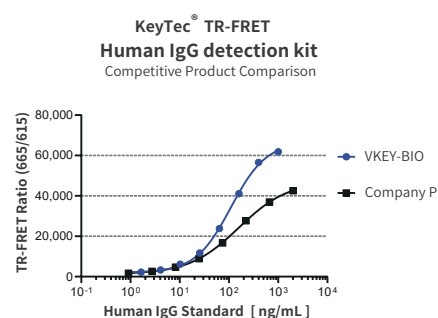
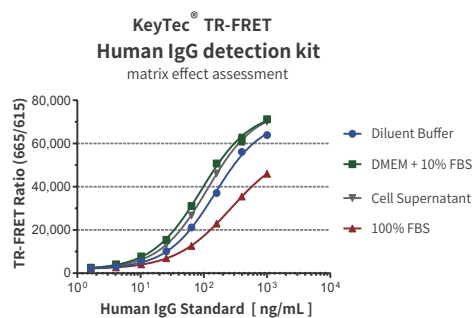
\* 2 KeyTec® TR-FRET Solar Eu: Fluorescence Resonance Energy Transfer Donor (TR-FRET Donor)

### The detection principle of the kit:



**Quantitative Range :** 2 ng/mL - 900 ng/mL

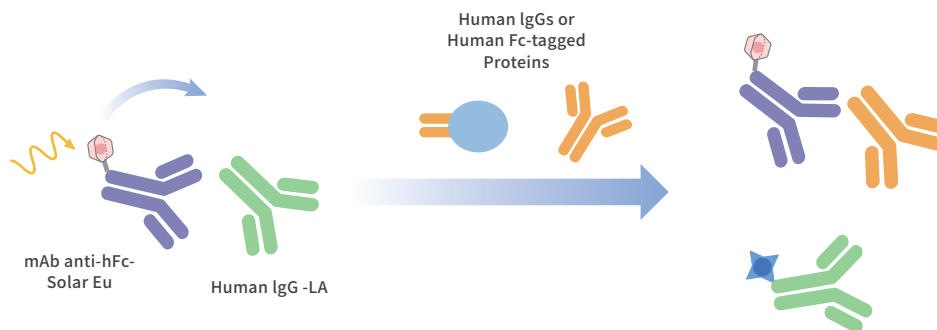
**Incubation Conditions :** incubate at room temperature for 2 hours to overnight



## Principle and results

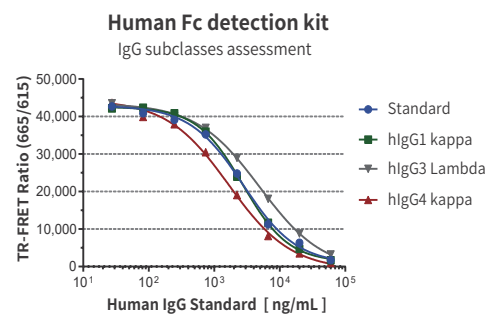
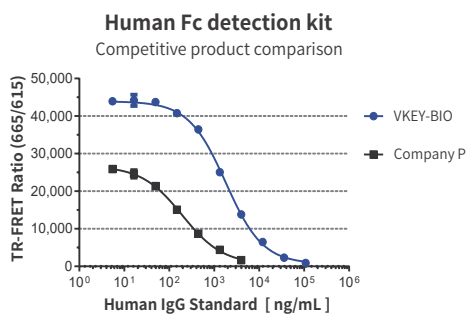
KeyTec® TR-FRET Human Fc Detection Kit uses a competitive method, quantitatively measuring human IgGs or the proteins with Fc tags from the sample. They compete with LA-conjugated human IgG for the binding site of Solar Eu-conjugated anti-human Fc antibody, resulting in a TR-FRET signal inversely proportional to the concentration of IgGs or the proteins with Fc tags in the standard or sample.

### The detection principle of the kit:



**Quantitative Range :** 50 ng/mL - 50,000 ng/mL

**Incubation Conditions :** incubate at room temperature for 2 hours to overnight



## Product List

Brand	CAT	Description	Size
VKEY-BIO	A1040001S	KeyTec® TR-FRET Human IgG Detection kit	1,000 tests
VKEY-BIO	A1040001L	KeyTec® TR-FRET Human IgG Detection kit	10,000 tests
VKEY-BIO	A1040001N	KeyTec® Human IgG standard (300 µg/mL)	150 µL/vial
VKEY-BIO	A1040002S	KeyTec® TR-FRET Human Fc Detection kit	1,000 tests
VKEY-BIO	A1040002L	KeyTec® TR-FRET Human Fc Detection kit	10,000 tests