

Human IgG RapidTiter Strips

Catalog No.

AR100096 (25 Strips)
AR100096L (100 Strips)

Principle of the Assay

Human IgG RapidTiter Strips are ready-to-use Dip & Read test strips designed for rapid detection and semi-quantitative analysis of human IgG and human IgG Fc-fusion proteins. Just immerse the strip in your sample and interpret the result in less than five minutes—no specialized equipment or instruments required. The strip can be applied directly to unpurified samples in cell lysis buffer or cell culture medium (with or without FBS). It is also compatible with samples in common buffers such as PBS, Tris, or HEPES etc.

The detection limit of the Human IgG RapidTiter Strip is 0.1 µg/mL for human IgG1, IgG2 and IgG4. The product does not detect human IgG3. The quantitative range is between the detection limit to up to 10 mg/mL. Unlike traditional sandwich lateral flow assays, it is not affected by the Hook Effect and does not generate false negative results in high concentration samples. By comparing the line pattern with the images provided in the protocol, sample concentrations can be semi-quantitatively determined by naked eye inspection simply. Human IgG RapidTiter Strips are intended for research use only.

Package Contents

Cat #	RapidTiter Strips	Reference Card
AR100096	25 Strips	1
AR100096L	4 x 25 Strips	1

Storage and Stability

Store all strip components at room temperature. Strips should not be used beyond the expiration date. Leave RapidTiter Strips in its canister until just before use. Keep dry. Avoid prolong exposure to humidity.

Precautions

1. The test strip contains a total of three lines: a control line (C), test line T1, and test line T2. The control line (C) is the uppermost line, located approximately 42 mm from the bottom of the strip. Test line T1 is the middle line, positioned about 38 mm from the strip bottom, and test line T2 is the bottom line, located approximately 34 mm from the strip bottom.
2. The line patterns shown in the protocol are read for 5 minutes. Reading the results at longer time points may increase assay sensitivity. The line pattern remains stable for at least 3 hours, although the line color may gradually fade over time.
3. Results shown here are for human IgG1, IgG2 and IgG4. This product does not detect human IgG3.
4. The product can also be used to detect human IgG Fc-fusion proteins. The concentrations of human IgG Fc-fusion proteins should be calculated based on the molecular weight of the protein.
5. For more accurate measurements, standard samples with known concentrations of the same protein prepared in the same matrix can be used to first generate reference line patterns, which can then be compared with the line pattern of the test sample.

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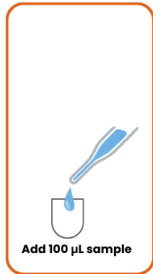
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Test Procedure

Read all instructions carefully before performing the test. Failure to follow the instructions may result in inaccurate test results.

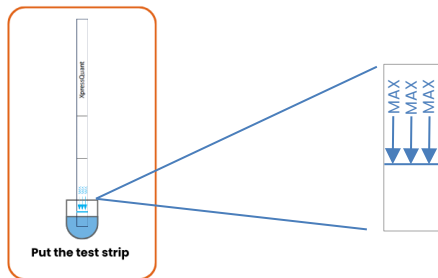
1. Add 100 μL sample to a well (e.g. a well of a 96-well plate) or a vial.

Note: Dilute the sample with a buffer (e.g. PBS) if desired.



2. Put the test strip into the vial, with the arrow label side immersed in the sample.

Note: Do not immerse above the MAX line



3. Wait 5 minutes until the control line is clear.
4. Read the result by comparing the images below

Concentration	0	0.1 $\mu\text{g/mL}$	1 $\mu\text{g/mL}$	10 $\mu\text{g/mL}$	100 $\mu\text{g/mL}$	1 mg/mL	≥ 10 mg/mL
Line pattern	Two clear lines C and T1. $T1 > C$	Two clear lines C, T1 and a faint line T2. $T1 > C \gg T2$	Three clear lines C, T1 and T2. $T1 > C > T2$	Three clear lines C, T1 and T2. $T2 \geq T1 \approx C$	Three clear lines C, T1 and T2. $T2 \geq C > T1$	Two clear lines C, T2 and a faint line T1. $C > T2 \gg T1$	One clear line C and a faint line T2 $C \gg T2$

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