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Bringing High Performance Diagnostics to Patient's Side

XpressQuant Rabbit IgG test strip (XQ-rIgG)

The XpressQuant Rabbit IgG Test Strip is a novel combo lateral flow assay designed for the rapid detection and semi-quantitative measurement of both rabbit IgG and rabbit IgG Fc-fusion proteins. The assay features a simple workflow and can be completed within 5 minutes without the need for any instruments. The test 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 prepared in common buffers such as PBS, Tris, and HEPES.

The detection limit of the XpressQuant Rabbit IgG Test Strip is 0.1 µg/mL, with a quantitative range spanning from 0.1 µg/mL to 10 mg/mL. Unlike traditional sandwich lateral flow assays, the test is not affected by the Hook Effect and does not produce false-negative results at high analyte concentrations. By visually comparing the test line pattern with the reference images provided in the protocol (see back), sample concentrations can be easily determined semi-quantitatively by naked-eye inspection.

XpressQuant is a patent-pending technology and represents a first-of-its-kind lateral flow platform that enables quantitative measurement of analyte concentrations with unprecedented ease and speed.

Contents and Storage

CATALOG NUMBER	UNIT	STORAGE
XQ-rIgG-25	25	Room temperature Keep dry
XQ-rIgG-100	100	Room temperature Keep dry

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 at 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. The product can also be used to detect rabbit IgG Fc-fusion proteins. The concentrations of rabbit IgG Fc-fusion proteins should be calculated based on the molecular weight of the protein.

4. 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.

Refer to the back for detailed test procedure instructions

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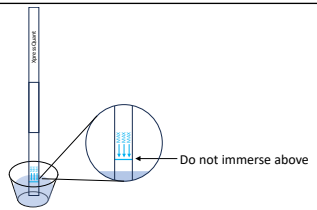
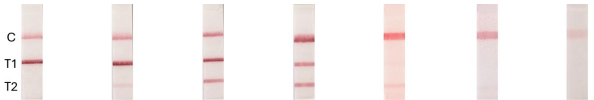
Test Procedure

Step	Description	Illustration
1	Add 100 µL sample to a well (e.g. a well of a 96-well plate) or a vial. (Dilute the sample with a buffer (e.g. PBS) if desired.)	
2	Put the test strip into the vial, with the arrow labeled side immersed in the sample.	
3	Wait 5 minutes until the control line is clear	
4	Read the result by comparing to the images below	

Concentration	0	0.1 µg/mL	1 µg/mL	10 µg/mL	100 µg/mL	1 mg/mL	≥10 mg/mL
Line pattern	Two clear lines C and T1. T1>C	Two clear lines C, T1 and a weak line T2. T1>C>T2	Three clear lines C, T1 and T2. T1>C≈T2	Three clear lines C, T1 and T2. C>T2≈T1	Two clear lines C, T2 and a weak line T1. C>T2>T1	One clear line C and one faint lines T2. C>>T2	Only one line C. C may be weak