


Pro-Detect™ Rapid Antibody Isotyping Assay Kit - Rat

Catalog Numbers A38551

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 **WARNING!** Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from [thermofisher.com/support](https://www.thermofisher.com/support).

Contents

Product	Cat. No.	Contents	Storage
Pro-Detect™ Rapid Antibody Isotyping Assay Kit - Rat	A38551	Pro-Detect™ Rapid Antibody Isotyping Strip - Rat Pro-Detect™ Rapid Isotyping Dilution Buffer	Store at 4°C. Do not freeze. After opening, store unused strips in the enclosed container containing desiccant.

Note: Microtiter plates and/or test tubes are required to use the assay.

Product description

The Thermo Scientific™ Pro-Detect™ Rapid Antibody Isotyping Assay Kit - Rat is a 5-minute lateral-flow assay with ELISA sensitivity for class and subclass determination of rat antibodies. The assay is performed by simply dipping a Pro-Detect™ Rapid Antibody Isotyping Strip into properly diluted supernatant sample. The gold conjugates embedded in the membrane form specific class- and subclass-soluble complexes with the antibodies in the sample. These complexes travel the length of the membrane and are resolved on the anti-isotype and class-specific antibody-impregnated membrane. Results are displayed **above the printing on the strip** as a red band indicating the antibody isotype or subclass. A red colored line at the control (C) band region will always appear and indicates a properly functioning test.

Material preparation

Note: Proper sample dilution is essential for optimal results. If sample concentration is known, dilute to 100 ng/mL. For samples with unknown concentrations, follow the dilution instructions below.

1. Add 200 µL of Pro-Detect™ Rapid Isotyping Dilution Buffer to each culture tube.
2. Dilute 1:100 by adding 2 µL of fresh sample to the labeled culture tubes and vortex to mix. For fluid samples containing antibodies at <10 µg/mL, dilute the sample 1:10 (instead of 1:100) by adding 22 µL of fluid sample.

Perform test

1. Remove container of lateral flow strips from refrigeration and fully equilibrate to room temperature.
2. Open the white tube containing the lateral flow isotyping strips and add 150-200 µL of diluted sample to a well of a microtiter plate or test tube for each strip used.
3. Wait 5-10 minutes for color bands to appear and immediately evaluate results.

A successful test will result in a red band at the "C" or control location. A red line that develops towards the top or slightly above the printing for the class or subclass indicates the presence of that class or subclass in the fluid specimen tested.

Note: Keep all test strips stored and sealed in the desiccated tubes when not in use.

Troubleshooting

Observation	Possible cause	Recommended action
No bands detected after applying sample.	Sample did not contain antibody.	Use a different test (e.g., ELISA or Western blot) to verify sample contains antibody . Verify correct assay strip is being used.
	Lateral flow strip was not sufficiently submerged in sample.	Apply test strip fully into sample well and ensure enough volume is present in the well to fully cover the white application tip of the strip.
Multiple bands detected.	Sample was not sufficiently diluted.	Dilute sample an additional 1:10 to 1:100 and re-test.
	Sample contained antibody from multiple sources.	Dilute sample an additional 1:10 to 1:100 and re-test. The darkest band is the isotype of the most abundant antibody in the sample.
	The test was allowed to proceed longer than 10 minutes.	Evaluate results within 10 minutes of adding the sample to the cassette well.



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