

# Rapid Test Kit

for research use only

Product #: T10261 / for ADV/ADMV

This product is only for research and screening use.

For any suspicious result, please further confirm with CIE or ELISA, or further consult with your veterinarian.

## 1. Before Test

- 1) Check the validation and expiry information of the kit; make sure the kits are valid and stored properly before use.
- 2) If the package is broken or damaged before use, please do not use. Contact your supplier and see if it is usable.
- 3) The sample and sample tube shall be handled properly. All used strips shall be collected according to local regulations.
- 4) Take the strip out from the package according to your requirement and use for test immediately.
- 5) Do not open the plastic container before use.
- 6) This test strip is used for only once, do not use repeatedly.



## 2. Introduction

ADV is the pathogen that causes the severe chronic disease in mink and ferret, etc., causing significant decrease in the host growth and reproduction performance. Serology testing is currently the valid methodology for the diagnosis of ADV infection, i.e., ELISA and Counter immune electrophoresis, etc. Due to the deficiency of time-consuming, complicated operation and expensive facilities, farmers and researchers are looking for new ways to simplify the work. Rapid test strip, also known as lateral flow test strip, is the newly developed technology to solve the current problem of ADV diagnosis.

## 3. Principle

This current test is based on immunochromatographic assay, in which double antibody sandwich immunoassay is employed. There are two Lines (Line C and Line T) on the test strip. Line C is coated with secondary antibody, which will recognize Mink/Ferret IgG and always appear. Colloid gold conjugated antigen A (coated on a membrane) will recognize the ADV antibody in the serum or blood and then the other antigen B will capture the antigen A-antibody complex on the Line T, then a positive result is out with 2 lines on the strip. If Line T is invisible, the result will be negative. If Line T is weaker than Line C, a weak positive result will be obtained.

## 4. Kit Components

ADV Ab Test Strip, 96pcs, in 2 vials, 48T/vial.

Plastic Pipette, 96pcs

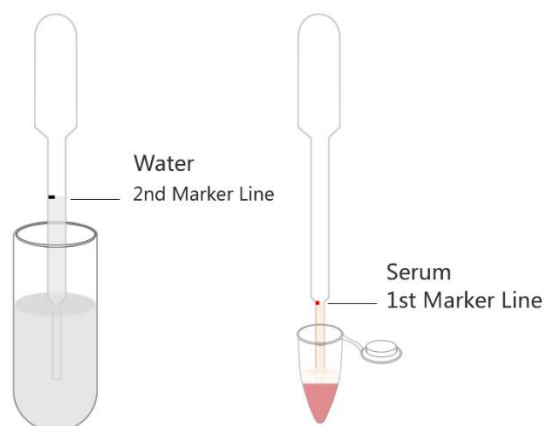
Microwell reagent, 96wells, in foil pack

Kit instruction, 1 pc

## 5. Sample preparation

4.1 Collect 0.5mL-1mL blood from the target animal. Use the serum for testing after it is separated.

4.2 If the serum sample solution cannot be tested immediately, please store at 4°C for no more than 4 hours.



## 6. Assay Steps

5.1 Take needed strips, microwells from the package and use them for testing within 1 hour.

5.2 Take 90ul purified water (or distilled water, or purified bottle water) into the microwell.

**Note: Micropipette** is recommended to take the liquid for testing. If you use the plastic pipette in the kit, the liquid shall be collected to the **Second MARKER** on the pipette.

5.3 Take 10ul serum sample into the microwell.

**Note: Micropipette** is recommended to take the liquid for testing. If you use the plastic pipette in the kit, the liquid shall be collected to the **First MARKER** on the pipette.

**Note:** if the sample tube is stored at 4°C, please take out and bring to room temperature before testing, for example, keep the sample at room temperature for at least 30min.

5.4 Mix the sample, water and the reagent in the microwell use the plastic pipette or micropipette by repeated absorbing up and pushing down for 3 times.

#### Blood comb: **IMPORTANT**

(1) **Collect mink blood** with blood paper provided in the kit, record the sample number on the blood paper. When the blood paper is dry, keep it in zip-bag for future use.

(2) **Attach all the blood paper** to the blood comb.

(3) Add 100ul water into the microwells, and then **dip blood comb into the microwells with water** for 2min to let the blood antibody dissolved into the water. (See attached schematic diagram for direction)

5.5 Insert the test strip with the **MAX END** into the mixed liquid, and then keep at room temperature for 5min.

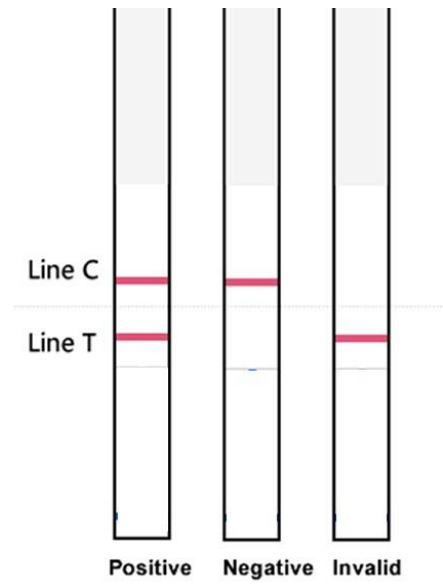
5.6 Take out the strip, cut off the wet **MAX END**, and determine the result according to Part 6.

#### 7. Result Determination

There are two lines on the strip, Line C for Control Line, Line T for Test Line.

**NEGATIVE (-):** Line C is visible, and Line T is not visible.

**POSITIVE (+):** Line C is visible and Line T is visible. A strong color of Line T indicates strong positive, and weak Line T means weak positive.



#### 8. Special notice

7.1 Read the kit instruction carefully before use.

7.2 Use the strip within 30min after taking out from the plastic package.

7.3 The test strip can be used for only once, do not use repeatedly.

7.4 The test result is for reference, suspicious result may need further confirmation with ELISA or CIE.

#### Manufacturer Information

Ring Biotechnology Co., Ltd

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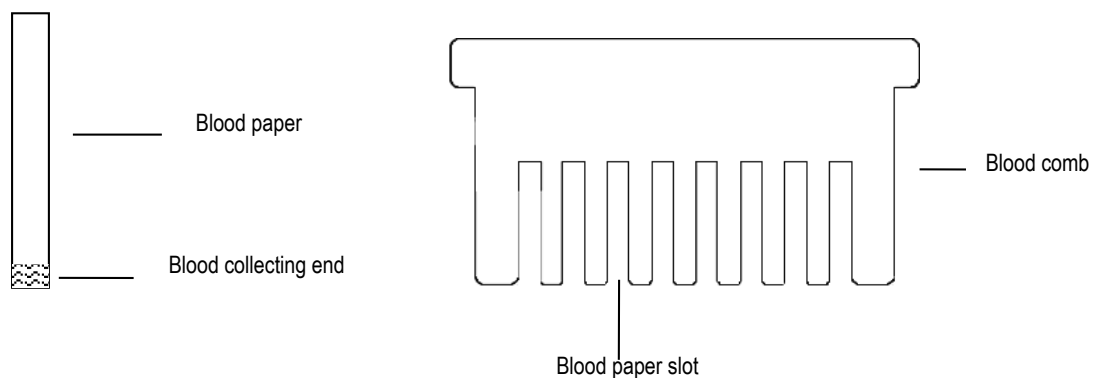
Tel: +86-10-56267496 Technical Support & Service: +86-13811393460

## How to use the blood comb and blood paper

### 1. Check the kit content, identify the following components

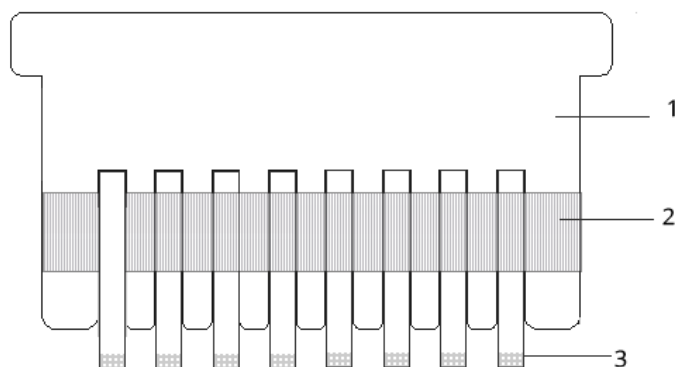
**Blood Paper:** for blood sample collecting. Bleed the mink, and collect the blood with the blood end of the blood paper. Make sample number record on the blood paper.

**Blood comb:** for blood paper supporting. To provide a support when running the assay. Attach the collected blood paper in the slot of the comb, and stick on it with adhesive tape.



### 2. Attach the blood paper to the blood comb

In the picture below, No. 1 is the Blood Comb. No 2 is the adhesive tape. No 3 is the blood paper.



**3. Release the sample:** take out the 96well plate and add 100ul sample buffer in into the microwells. Insert the prepared blood comb in well and incubate at 37°C.

