



(For scientific research use only, not for clinical diagnosis!)

Porcine Contagious Pleuropneumonia Type 2 Antibody (CP-2Ab) ELISA Kit Instructions for Use Product No.: BY-EP780459 Specifications: 48T/96T

Please read the instructions carefully before use. If you have any questions, please contact us through the following methods: Official hotline: 025-5229-8998 Sales department phone: 13914481711 Technical phone: 15950492658 Contact email: 3224949330@qq.com Company website: www.byabscience.cn For specific shelf life, please see the reagents Box packaging label. Please use the kit within the shelf life. When contacting us, please provide the product number and production date (see box label) so that we can serve you more efficiently.

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Kit performance Physical properties: Each liquid component is clear and transparent, with no precipitation or floc. Microplate aluminum foil bags should be vacuum packed without damage or leakage.

Negative control OD value: less than 0.2.

Positive control OD value: greater than 0.8.

Precision: intra-batch variation coefficient CV% is less than 10%; inter-batch variation coefficient CV% is less than 15%.

Recovery rate: The recovery rate is between 85%-115%.

Specificity: This kit recognizes native and recombinant porcine contagious pleuropneumonia type

2 antibodies (CP-2Ab) and has no crossover with structural analogs. Stability: Stored at 2°C-8°C,

validity period is 6 months.

Purpose: For the qualitative detection of porcine contagious pleuropneumonia type 2 antibodies

(CP-2Ab) in samples such as serum, plasma, cell culture supernatants and tissues.

Shelf life: Stored at 2°C-8°C, valid for 6 months.

Experimental principle

The kit uses an indirect enzyme-linked immunosorbent assay (ELISA). To the microwells precoated with porcine contagious pleuropneumonia type 2 antibody (CP-2Ab) capture antigen, add the specimen, negative and positive controls in sequence, then add the HRP-labeled detection antibody, incubate and wash thoroughly. The substrate TMB is used for color development. TMB is converted into blue under the catalysis of peroxidase, and converted into the final yellow under the action of acid. There is a positive correlation between the color depth and the porcine contagious pleuropneumoniae

type 2 antibody (CP-2Ab) in the sample. Use a microplate reader to measure the absorbance (OD value) at a wavelength of 450 nm to determine negative and positive.

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Kit components and storage: Store unopened kits at 2-8

degrees Celsius. Do not use expired kits.

Components	48-well configuration	96-well configuration	Store after opening
Pre-coated enzyme	48T	96T	2-8°C14 days
negative control	0.3mL	0.3mL	2-8°C14 days
positive control	0.3mL	0.3mL	2-8°C14 days
sample diluent	3ml	6ml	2-8°C180 days
HRP labeled antibodies	5ml	10ml	2-8°C14 days
Chromogenic substrate	3ml	6ml	2-8°C180 days
Chromogenic substrate	3ml	6ml	2-8°C180 days
stop solution	3ml	6ml	2-8°C180 days
20×Lotion	15ml	25ml	2-8°C180 days
sealing film	2 sheets	2 sheets	
manual	1 serving	1 serving	
Ziplock bag	1	1	

Note: 1: Please check whether the label and quantity of the reagents

in the kit are consistent with the table before use.

2: If the components of the kit need to be used again, please ensure that they have

not been contaminated since the last use. 3: If the enzyme plate is not used up in a

single time, remember to seal it and store it at 2-8°C.

Prepare your own test equipment required for the test (not provided, but can assist in

1) Microplate reader capable of detecting absorbance at 450 nm 2) Pipette,

pipette tip, and sample addition tank 3) 37°C incubator or water bath 4) Test

tubes, centrifuge tubes, measuring cylinders, etc. for preparing reagents 5)

Distilled water or deionized water Ionized water 6) Vortex oscillator,

microplate oscillator

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Notes 1) For scientific research use only, not for clinical diagnosis.

2) Use within the validity period marked on the kit. Expired products must not be used.

3) Do not mix with kits or components from other manufacturers. Use the sample diluent provided with the kit.

4) If the sample value is higher than the highest standard concentration value, please dilute the sample appropriately and then re-measure.

5) Human anti-mouse and other heterophilic antibodies present in the sample to be tested will interfere with the test results. Please eliminate this factor before testing.

6) The test results obtained by other methods are not directly comparable to the test results of this kit.

7) Please wear a lab coat and latex gloves for protection during the test. Especially when testing blood

or other body fluid samples, please follow the national biological laboratory safety protection

regulations.

8) Carry out incubation strictly according to the specified time and temperature to ensure accurate

results. All reagents must reach room temperature 20-25°C before use. Store reagents refrigerated

immediately after use.

9)洗板不正确可以导致不准确的结果。在加入底物前确保尽量吸干孔内液体。温育过程中不要 让微孔干燥掉。

10) 消除板底残留的液体和手指印,否则影响 OD 值。

- 11) 底物显色液应呈无色或很浅的颜色。
- 12) 避免试剂和标本的交叉污染以免造成错误结果。
- 13) 在储存和温育时避免强光直接照射。
- 14) 检测使用的酶标仪需要安装能检测 450±10nm 波长的滤光片,光密度范围在 0-

3.5 之间。建议使用时提前 15 分钟预热。

15)试验中所用的 EP 管和吸头均为一次性使用,严禁混用。

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<mark>样品的准备和保存</mark>

以下只是列出样品采集和保存的一般指南。所有样本采集保存过程中,不得使用叠氮钠做 为防腐剂。样品如果不立即分析,应分装后冷冻保存,且避免反复冻融。

细胞培养上清——离心去除沉淀,立即分析或分装后-20℃冷冻保存。

血清——用干净试管收集血液,室温凝固 30 分钟,离心 2000×g 20 分钟,收集血清。立即 分析 或分装后-20℃冷冻保存。

血浆——采用肝素、柠檬酸盐或 EDTA 抗凝, 抽血后 30 分钟内在 2-8℃离心 2000×g 20 分钟。为消除血小板的影响, 建议在 2-8℃进一步离心 10000×g 10 分钟。立即分析或分装后-20℃冷冻保存。

细胞裂解液——对于贴壁细胞,去除培养液,用 PBS、生理盐水或无血清培养液洗一遍。加入适量裂解液,用枪吹打数下,使裂解液和细胞充分接触。通常 10 秒后,细胞就会被裂解。对于悬浮细胞,离心收集细胞,用 PBS、生理盐水或无血清培养液洗一遍。加入适量裂解液,用 枪吹打把细胞吹散,用手指轻弹以充分裂解细胞。充分裂解后,10000—14000×g 离心 3-5 分钟,取上清。立即分析或分装后-20℃冷冻保存。

Tissue homogenate - rinse the tissue with pre-cooled PBS (0.01M, pH=7.4) to remove residual blood (lysed red blood cells in the homogenate will affect the measurement results), weigh and cut the tissue into pieces. Mix the minced tissue with the corresponding volume of PBS (generally according to the weight to volume ratio of 1:9, for example, 1g of tissue sample corresponds to 9mL of PBS. The specific volume can be adjusted appropriately according to the experimental needs, and recorded. It is recommended to add Protease inhibitor) was added to a glass homogenizer and ground thoroughly on ice. In order to further lyse tissue cells, the homogenate can be sonicated or frozen and thawed repeatedly. Finally, centrifuge the homogenate at 5000 × g for 5 to 10 minutes, and take the supernatant for detection.

Urine - Collect in sterile tubes and centrifuge at 2000×g for 20 minutes. Carefully collect the supernatant. If a precipitate forms, centrifuge again.

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Reagent preparation 1. Before use, all components must be rewarmed for at least 60 minutes to ensure sufficient rewarming to room temperature.

2. Concentrated washing liquid: The concentrated washing liquid taken out from the refrigerator will produce crystals. This is a normal phenomenon. Heating in a water bath will completely dissolve the crystals. Concentrated detergent and distilled water, dilute 1:20, that is, 1 part of concentrated detergent,

add 19 parts of distilled water.

Operating procedures: Return all reagents and components to room temperature first. For standards, quality control materials and samples, it is recommended to make duplicate holes.

1. Prepare the working solutions of various components of the kit according to the method described in the previous instructions.

2. Take out the required slats from the aluminum foil bag, seal the remaining slats in a ziplock bag and return it to the refrigerator.

3. Set up standard wells and sample wells, and add 50 μ L of standards of different concentrations to each standard well;

4. Add 50 μ L of the sample to be tested into the sample well; do not add it to the blank well.

5. Except for the blank well, add 100 µL of horseradish peroxidase (HRP)-labeled detection antibody

to each well of the standard well and sample well, seal the reaction well with a sealing film, and keep

the temperature in a water bath or constant temperature oven at 37°C. Incubate for 60 minutes.

6. Discard the liquid, pat dry on absorbent paper, fill each well with washing solution (350 μ L), let it

stand for 1 minute, shake off the washing solution, pat dry on absorbent paper, and repeat washing the

plate 5 times (you can also use a plate washer to wash it) plate).

7. Add 50 µL each of substrates A and B to each well, and incubate at 37°C in the dark for 15 minutes.

8. Add 50 μ L of stop solution to each well, and within 15 minutes, measure the OD value of each well at a wavelength of 450 nm.

[Interpretation of test results]

- 1. Negative control OD value: less than 0.2.
- 2. Positive control OD value: greater than 0.8.
- 3. Positive judgment (Cut-Off value): If the negative control OD value is +0.25, and the sample OD

value is greater than the threshold, it is judged as positive, otherwise, it is negative.

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[Problem Analysis] If the experimental results are not good, please take pictures of the color development results in time, save the experimental data, keep the used strips and unused reagents, and then contact our company's technical support to solve the problem for you. At the same time, you can also refer to the following information: [Questions and Answers]

Problem description	Possible reasons	Corresponding countermeasures Corresponding countermeasures	
	Incorrect liquid aspiration or	Check pipettes and tips	
standard curve gradient difference	Equilibration time is too short	Ensure sufficient balancing time	
	Incomplete washing	Ensure the washing time and number of washings and the amount of liquid	
	Incubation time too short	Ensure adequate incubation time	
	The experimental temperature is incorrect	Use recommended experimental temperatures	
Very weak or colorless	Insufficient reagent volume or missing addition	Check the liquid aspirating and adding process to ensure that all reagents are added in order and in	
	Incorrect dilution		
	Enzyme label inactivation or substrate failure	Mix enzyme conjugate and substrate and check by rapid color development	
		Check the wavelength and filter	
Reading value is low	Microplate reader settings are incorrect	Turn on the microplate reader and preheat it in advance	
Large coefficient of variation	Adding fluid incorrectly	Check the filling situation	
	The working concentration of the	Use the recommended dilution	
High background value	Incomplete washing of enzyme plate	Ensure that each step of cleaning is complete; if using an automatic plate washer, please check whether all outlets are blocked;	
	The lotion is contaminated	Prepare fresh lotion	
Low sensitivity	Improper storage of ELISA kits	Store relevant reagents according to	
	Not terminated before reading	Stop solution should be added to	

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statement

 Due to the current conditions and scientific and technological level, it is not possible to conduct comprehensive identification and analysis of all raw materials. This product may have certain quality and technical risks.

 This kit removes/reduces some endogenous interfering factors in biological samples during the development process. Not all possible influencing factors have been removed.

3. The final experimental results are closely related to factors such as the effectiveness of the reagents, the relevant operations of the experimenter, and the experimental environment at the time. Our company is only responsible for the kit itself and is not responsible for the sample consumption caused by the use of the kit. Please use The user should fully consider the possible usage of the sample and reserve sufficient samples before use.

4. In order to achieve good experimental results, please only use the reagents provided in our company's kits, do not mix products from other manufacturers, and operate in strict accordance with the instructions.

5. Due to incorrect reagent preparation and microplate reader parameter settings during the operation, abnormal results may result. Please read the instructions carefully and adjust the instrument before the experiment.

6. Even if operated by the same personnel, different results may be obtained in two independent experiments. In order to ensure the reproducibility of the results, it is necessary to control every step of the experimental process. 7. The kits will undergo strict quality inspection before shipment. However, due to factors such as transportation conditions, differences in experimental equipment, etc., user test results may be inconsistent with factory data.

8. This kit has not been compared with similar kits from other manufacturers or products that detect the same target substance using different methods, so inconsistent test results cannot be ruled out.

9. The kit is for research use only. If it is used for clinical diagnosis or any other purpose, our company will not be responsible for any problems arising therefrom, nor will we assume any legal liability.

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