

(仅供科研使用,不得用于临床诊断!)

猪丙型肝炎病毒抗体(HCV-Ab)ELISA 试剂盒使用说明书产品货号: BY-EP780054 规格: 48T/96T

使用前请仔细阅读说明书。如果有任何问题,请通过以下方式联系我们: 官方热线: 025-5229-8998 销售部电话: 13914481711 技术电话: 15950492658 联系邮箱: 3224949330@qq.com 公司网址: www.byabscience.cn 具体保质期请见试剂盒外包装标签。请在保质期内使用试剂盒。

网址: www.byabscience.cn 官方热线: 025-5229-8998 监督电话: 15950492658

试剂盒性能 物理性能:各液体组分澄清透明、无沉淀或者絮状物。微孔板铝箔袋应真空包装,

无破损漏气。

阴性对照 OD 值: 小于 0.2。

阳性对照 OD 值: 大于 0.8。

精密度: 批内变异系数 CV%小于 10%; 批间变异系数 CV%小于 15%。

回收率:回收率在85%-115%之间。

特异性:本试剂盒识别天然和重组猪丙型肝炎病毒抗体(HCV-Ab),与结构类似物无交叉。

稳定性: 2℃-8℃保存,有效期6个月。

用途:用于定性检测血清、血浆、细胞培养上清液和组织等样本中是否含有猪丙型肝炎病毒抗体(HCV-Ab)。

保质期: 2℃-8℃保存,有效期6个月。

实验原理

试剂盒采用间接法酶联免疫吸附试验(ELISA)。往预先包被猪丙型肝炎病毒抗体(HCV-Ab) 捕获抗原的包被微孔中,依次加入标本、阴性和阳性对照,再加入 HRP 标记的检测抗体,经过温育并彻底洗涤。用底物 TMB 显色,TMB 在过氧化物酶的催化下转化成蓝色,并在酸的作用下转化成最终的黄色。颜色的深浅和样品中的猪丙型肝炎病毒抗体(HCV-Ab)呈正相关。用酶标仪在 450nm 波长下测定吸光度(OD 值),判定阴阳性。

网址: www.byabscience.cn 官方热线: 025-5229-8998

监督电话: 15950492658



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



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) Improper plate washing can lead to inaccurate results. Make sure to absorb as much liquid as possible from the wells before adding substrate. Do not allow the microwells to dry out during incubation.
- 10) Eliminate residual liquid and fingerprints on the bottom of the plate, otherwise it will affect the OD value.
- 11) The substrate chromogenic solution should be colorless or very light in color.
- 12) Avoid cross-contamination of reagents and specimens to avoid erroneous results.
- 13) Avoid direct exposure to strong light during storage and incubation.

- 14) The microplate reader used for detection needs to be equipped with a filter capable of detecting a wavelength of 450±10nm, and the optical density range is between 0-3.5. It is recommended to preheat 15 minutes in advance before use.
- 15) The EP tubes and suction tips used in the test are single-use and are strictly prohibited from mixing.



Sample preparation and storage

The following lists only general guidelines for sample collection and preservation. During the collection and storage of all samples, sodium azide must not be used as a preservative. If the sample is not analyzed immediately, it should be aliquoted and stored frozen, and repeated freezing and thawing should be avoided.

Cell culture supernatant - centrifuge to remove precipitate, analyze immediately or aliquot and store frozen at -20°C.

Serum - Collect blood in a clean test tube, coagulate at room temperature for 30 minutes, centrifuge at 2000×g for 20 minutes, and collect serum. Analyze immediately or aliquot and store frozen at -20°C.

Plasma—anticoagulate with heparin, citrate, or EDTA, and centrifuge at 2000×g for 20 minutes at 2-8°C within 30 minutes of blood draw. To eliminate the influence of platelets, it is recommended to further centrifuge at 10,000 × g for 10 minutes at 2-8°C. Analyze immediately or aliquot and store frozen at -20°C.

Cell lysis buffer - For adherent cells, remove the culture medium and wash with PBS, physiological saline or serum-free culture medium. Add an appropriate amount of lysis solution and pipet several times with a gun to fully contact the lysate and cells. Typically after 10 seconds, cells are lysed. For suspended cells, collect the cells by centrifugation and wash them once with PBS, physiological saline or serum-free culture medium. Add an appropriate amount of lysis solution, blow the cells with a gun, and flick them with your fingers to fully lyse the cells. After full lysis, centrifuge at 10000-14000×g for 3-5 minutes and take the supernatant. Analyze immediately or aliquot and store frozen at -20°C.

组织匀浆——用预冷的 PBS (0.01M, pH=7.4)冲洗组织,去除残留血液(匀浆中裂解的红细胞会影响测量结果),称重后将组织剪碎。将剪碎的组织与对应体积的 PBS (一般按 1:9 的重量体积比,比如 1g 的组织样品对应 9mL 的 PBS,具体体积可根据实验需要适当调整,并做好记

录。推荐在 PBS 中加入蛋白酶抑制剂)加入玻璃匀浆器中,于冰上充分研磨。为了进一步裂解 组织细胞,可以对匀浆液进行超声破碎,或反复冻融。最后将匀浆液于 5000×g 离心 5~10分钟,取上清检测。

尿液——用无菌管收集, 离心 2000×g 20 分钟。仔细收集上清。如有沉淀形成, 应再次离心。

Nanjing BYabscience technology Co.,Ltd

网址: www.byabscience.cn 官方热线: 025-5229-8998 监督电话: 15950492658



试剂准备 1、使用前,所有的组分都要至少复温 60min,确保充分复温 到室温。

2、浓缩洗涤液: 从冰箱取出的浓缩洗涤液, 会有结晶产生, 这属于正常现象, 水浴加热使结晶 完全溶解。浓缩洗涤液与蒸馏水, 按 1:20 稀释, 即 1 份的浓缩洗涤液, 添加 19 份的蒸馏

水。

操作程序 所有试剂和组分都先恢复到室温,标准品、质控品和样品,建议做复孔。

- 1、按前面说明书描述的方法,配制好试剂盒各种组分的工作液。
- 2、从铝箔袋中取出所需板条,剩余的板条用自封袋密封放回冰箱。
- 3、设置标准品孔和样本孔,标准品孔各加不同浓度的标准品 50µL;
- 4、样本孔中加入待测样本 50μL; 空白孔不加。
- 5、除空白孔外,标准品孔和样本孔中每孔加入辣根过氧化物酶(HRP)标记的检测抗体 100μ
- L, 用封板膜封住反应孔, 37°C水浴锅或恒温箱温育 60min。
- 6、弃去液体,吸水纸上拍干,每孔加满洗涤液(350μL),静置 1min, 甩去洗涤液,吸水纸上拍干,如此重复洗板 5 次(也可用洗板机洗板)。
- 7、每孔加入底物 A、B 各 50μL, 37℃避光孵育 15min。
- 8、每孔加入终止液 50μL, 15min 内, 在 450nm 波长处测定各孔的 OD 值。

[检测结果的解释]

- 1、阴性对照 OD 值: 小于 0.2。
- 2、阳性对照 OD 值: 大于 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.

Nanjing BYabscience technology Co.,Ltd



[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
	Insufficient reagent volume or missing addition	Check the liquid aspirating and
Very weak or colorless	Incorrect dilution	adding process to ensure that all reagents are added in order and in
	Enzyme label inactivation or substrate failure	Mix enzyme conjugate and substrate and check by rapid color development
D 1: 1 : 1		Check the wavelength and filter
Reading value is low	Microplate reader settings are incorrect	Turn on the microplate reader and nreheat 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
, and the second	Not terminated before reading	Stop solution should be added to



<u>stat</u>ement

- 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.
- 2. 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. 为了达到好的实验结果,请只使用本公司试剂盒内提供的试剂,不要混用 其他制造商的产品,严格按照说明书操作。
- 5. 由于操作过程中试剂制备以及酶标仪参数设置不正确,可能导致结果异常, 实验前请仔细阅读说明书并调整好仪器。
- 6. 即使是相同人员操作也可能在两次独立实验中得到不同的结果,为保证结果的重现性,需要控制实验过程中每一步的操作。
- 7. 试剂盒发货前会经过严格的质检,然而,因为运输条件、实验设备差异等等因素影响,用户检测结果可能跟出厂数据不一致。
- 8. 本试剂盒未与其他厂家同类试剂盒或不同方法检测同一目的物的产品进行 对比,所以不排除检测结果不一致的情况。

9. 试剂盒仅供研究使用,如将其用于临床诊断或任何其他用途,我公司将不对因此产生的问题负责,亦不承担任何法律责任。

Nanjing BY abscience technology Co.,Ltd

网址: www.byabscience.cn 官方热线: 025-5229-8998 监督电话: 15950492658