

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

Canine Progesterone (PROG)

ELISA Kit Instructions for

Use 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 pr can serve you more efficiently	ovide the product number and production.	n date (see box label) so that we
	Nanjing BYabscience technology Co.,I	
Website: www.byabscience.cn	Official hotline: 025-5229-8998	Supervision phone number:



Kit performance Detection range: 50 pmol/mL-1600 pmol/mL.

Sensitivity: The lowest detectable dose is less than 10 pmol/mL.

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 natural and recombinant canine progesterone (PROG) and has no crossover with structural analogs.

Stability: Stored at 2°C-8°C, validity period is 6 months.

Purpose: Used to detect the concentration of canine progesterone (PROG) in samples such as serum, plasma, cell culture supernatant and tissue. Shelf life: Stored at 2°C-8°C, valid for 6 months.

Experimental principle

The progesterone (PROG) content in the samples was detected using enzyme-linked immunosorbent competition method. First, coat the microplate with goat anti-rabbit to make a solid-phase secondary antibody. Then add the sample to be tested, horseradish peroxidase-labeled progesterone (PROG) and anti-progesterone (PROG) antibodies to form a coating. Secondary antibody-anti-progesterone (PROG) antibody-progesterone (PROG) (HRP) complex, the binding amount of labeled progesterone (PROG) is inversely proportional to the amount of [Chinese name] in the sample. After color development, measure the absorbance value (OD value) on a microplate reader, fit the concentration-absorbance curve through a computer or drawing, and back-calculate the progesterone (PROG) content in the serum to be tested.

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
Standard product	0.3mL*6 管	0.3mL*6 管	2-8℃14 天
样本稀释液	3 ml	6 ml	2-8°C180 天
抗体	3 ml	6 ml	2-8℃14 天
HRP 标记抗原	3 ml	6 ml	2-8℃14 天
显色底物 A	3 ml	6 ml	2-8℃180 天
显色底物 B	3 ml	6 ml	2-8°C180 天
终止液	3 ml	6 ml	2-8°C180 天
20×洗液	15 ml	25 ml	2-8°C180 天
封板膜	2 张	2 张	
说明书	1 份	1 份	
自封袋	1 个	1 个	

校准品浓度依次为: 1600、640、320、213.333、50、0 pmol/mL。

注意: 1: 使用前请检查试剂盒中试剂的标签和数量与表格是否

一致。

- 2: 如果试剂盒的组份需要再次使用,请确保上一次使用之后没有被污染。
- 3: 酶标板单次未使用完,要谨记密封放到 2-8℃保存。

试验所需自备试验器材(不提供,但可协助购买)

- 1) 能够检测 450 nm 吸光度的酶标仪 2) 移液器及枪头、加样槽 3)
- 37℃恒温箱或水浴锅 4) 准备试剂用的试管、离心管、量筒等 5) 蒸馏

水或去离子水

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6) 涡旋振荡器、微孔板振荡器

注意事项 1)仅供科研使用,不得用于临 床诊断。

- 2) 在试剂盒标示的有效期内使用,过期产品不得使用。
- 3) 跟其他厂家的试剂盒或者组分不能混用,使用试剂盒配套的样品稀释液。
- 4)如果样本值高于最高标准品浓度值,请将样本适当稀释后,再重新测定。
- 5) 待测样本中存在的人抗鼠等异嗜抗体会干扰检测结果,检测前,请排出该因素。
- 6)通过其他方法得到的检测结果,与本试剂盒测定结果不具有直接的可比性。
- 7) 试验中请穿着实验服并戴乳胶手套做好防护工作。特别是检测血液或者其他体液样品时,请按国家生物试验室安全防护条例执行。
- 8) 严格按照规定的时间和温度进行温育以保证准确结果。所有试剂都必须在使用前达到室温 20-25℃。使用后立即冷藏保存试剂。
- 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) 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 effect 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, normal 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。

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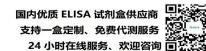


试剂准备 1、使用前,所有的组分都要至少复温 60min,确保充分复温到室温。

- 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。
- 3、底物:底物液 A 和 B,在使用前,按 1:1 体积充分混合,混合后 15 分钟内使用。

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。

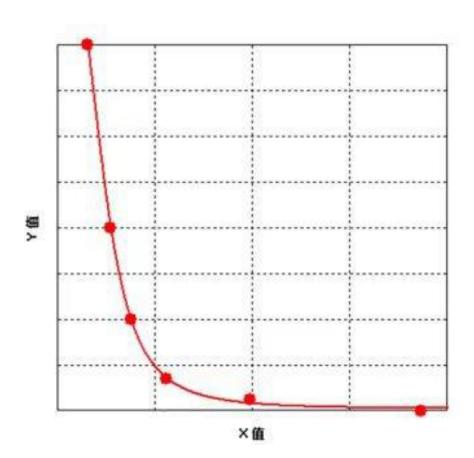
- 1、按前面说明书描述的方法,配制好试剂盒各种组分的工作液。
- 2、从铝箔袋中取出所需板条,剩余的板条用自封袋密封放回冰箱。
- 3、每次实验前,根据实验检测数量,按酶标抗原 1/10 的体积取抗体,与酶标抗原混合,制成酶标抗原混合液。例如:取 3ml 酶标抗原,加入 0.3ml 抗体混合,制成混合液。
- 4、将预包被板从密封袋中取出,设一个空白对照孔,不加任何液体;每个校准品依次各设两 孔,每孔加入相应校准品 50μl;其余每个检测孔直接加质控品或待测血清 50μl。
- 5、每孔加入酶标混合液 50μl (空白对照孔除外), 充分混匀, 贴上封板膜, 置 37℃温育 1 小时。
- 6、手工洗板: 弃去孔内液体,洗涤液注满各孔,静置 10 秒甩干,重复 3 次后拍干。洗板机洗板:选择洗涤 3 次程序洗板后拍干。
- 7. Add 50 µl of developer solution A and 50 µl of developer solution B to each well. After shaking and mixing, place at 37°C to develop color in the dark for 15 minutes. Add 50 µl of stop solution to each well.
- 8. Use a microplate reader to read. For a 450nm single-wavelength microplate reader, you need to first adjust the zero point with a blank control hole, and then measure the absorbance value of each well.





Result calculation

9. Use the concentration of the standard substance as the abscissa and the corresponding absorbance (OD value) as the ordinate. Use computer software and four-parameter Logistic curve fitting (4-pl) to create a standard curve equation. Through the absorbance (OD value) of the sample value), use the equation to calculate the concentration value of the sample. [Calculation using ELISA Calc software] 10. If the sample is diluted, the concentration value measured by the above method must be multiplied by the dilution factor to obtain the final concentration of the sample. Note: Experimenters need to establish a standard curve based on their own experiments. For each test, a standard curve must be established for each enzyme plate. The following curves are for reference only!



(Schematic diagram of the music, for reference only)



[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
standard curve gradient difference	Incorrect liquid aspiration or	Check pipettes and tips
	Equilibration time is too short	Ensure sufficient balancing time
	Incomplete washing	Ensure the washing time and number of washings and the amount of liquid
Very weak or colorless	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
	Incorrect dilution	adding process to ensure that all
	Enzyme label inactivation or substrate failure	reagents are added in order and in Mix enzyme conjugate and substrate and check by rapid color development
	Microplate reader settings are incorrect	Check the wavelength and filter
Reading value is low		Turn on the microplate reader and preheat it in advance
Large coefficient of variation	Adding fluid incorrectly	Check the filling situation
High background value	The working concentration of the	Use the recommended dilution
	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	ELISA 试剂盒保存不当	按说明书要求保存相关试剂
··· 	读数前未终止	OD 读数前应在每孔中加入终止

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