



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

Rabbit NFkB-induced kinase (NIK)

ELISA kit Instructions for use Product

number: BY-ER772038 Specifications:

48T/96T Detection range: 0.25 ng/mL– 8

ng/mL.

Sensitivity: The lowest detectable dose is less than 0.1 ng/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 native and recombinant rabbit NFkB-induced kinase

(NIK) without crossover to structural analogs. Stability: Stored at 2°C–8°C, validity

period is 6 months.

Purpose: Used to detect the concentration of rabbit NFkB-induced kinase (NIK) in samples such as serum, plasma, cell culture supernatant, and tissue.

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

Company website: www.byabscience.cn For the specific shelf life, please

refer to the outer packaging label of the kit. 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.

Nanjing BYabsience technology Co.,Ltd

Website: www.byabsience.cn

Official hotline: 025-5229-8998

Supervision phone number:



Experimental principle

This kit uses a double-antibody sandwich enzyme-linked immunosorbent assay (ELISA). In the microwell microplate pre-coated with anti-rabbit NFκB-induced kinase (NIK) antibody (solid-phase antibody), add rabbit NFκB-induced kinase (NIK) calibrator and sample to be tested, and then add HRP-labeled anti-rabbit NFκB-induced kinase (NIK) antibody (enzyme-labeled antibody), after incubation and thorough washing, removes unbound components and forms a solid-phase antibody-antigen-enzyme-labeled antibody sandwich complex on the solid surface of the microplate. Adding substrates A and B, the substrates are catalyzed by HRP to produce a blue product, which is finally converted to yellow under the action of the stop solution (acidic solution). The absorbance (OD value) was measured at a wavelength of 450 nm on a microplate reader. The absorbance (OD value) was positively correlated with the concentration of rabbit NFκB-induced kinase (NIK) in the sample to be tested. The concentration of rabbit NFκB-induced kinase (NIK) in the sample can be calculated by fitting the calibrator curve.

Experimental schematic diagram



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监督电话: 15950492658



试剂盒组分与保存 未开封的试剂盒保存在 2-8 度，不得使用过期试剂盒。

| 组分 | 48 孔配置 | 96 孔配置 | 开封后储存 |
|----------|-----------|-----------|-----------|
| 预包被酶标板 | 48T | 96T | 2-8℃14 天 |
| 标准品 | 0.3mL*6 管 | 0.3mL*6 管 | 2-8℃14 天 |
| 样本稀释液 | 3 ml | 6 ml | 2-8℃180 天 |
| HRP 标记抗体 | 5 ml | 10 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℃180 天 |
| 终止液 | 3 ml | 6 ml | 2-8℃180 天 |
| 20×洗液 | 15 ml | 25 ml | 2-8℃180 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：8、4、2、1、0.5、0.25 ng/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°C。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) 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。



样品的准备和保存

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。

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。



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。

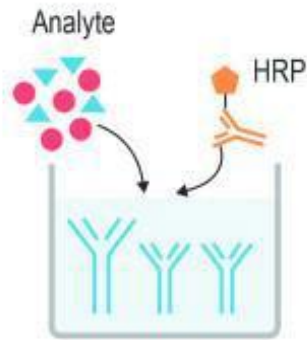
2、浓缩洗涤液：从冰箱取出的浓缩洗涤液，会有结晶产生，这属于正常现象，水浴加热使结晶完全溶解。浓缩洗涤液与蒸馏水，按 1:20 稀释，即 1 份的浓缩洗涤液，添加 19 份的蒸馏水。3、底物：底物液 A 和 B，在使用前，按 1:1 体积充分混合，混合后 15 分钟内使用。

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。

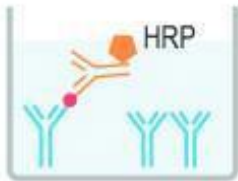
- 1、按前面说明书描述的方法，配制好试剂盒各种组分的工作液。
- 2、从铝箔袋中取出所需板条，剩余的板条用自封袋密封放回冰箱。
- 3、设置标准品孔、0 值孔、空白孔和样本孔，标准品孔各加不同浓度的标准品 50 μ L，0 值孔加样本稀释液 50 μ L，空白孔不加，样本孔加待测样本 50 μ L。
- 4、除空白孔外，标准品孔、0 值孔和样本孔，加入辣根过氧化物酶（HRP）标记的检测抗体 100 μ L。
- 5、用封板膜盖住反应板，37 $^{\circ}$ C 水浴锅或恒温箱避光孵育 60min。
- 6、揭开封板膜，弃去液体，吸水纸上拍干，每孔加满洗涤液，静置 20S，甩去洗涤液，吸水纸上拍干，如此重复 5 次。若使用自动洗板机，请按洗板机操作程序进行洗板，添加浸泡 30s 的程序，可以提高检测的精度。洗板结束，加底物前，要在干净不掉屑的纸上，充分拍干反应板。（提示：为获得理想的实验结果，必须彻底移除残留液体。洗板完成之后，请立即进行下一步操作，不要让微孔板干燥。）
- 7、将底物 A 和 B 按 1:1 体积充分混合，所有孔中加入底物混合液 100 μ L。用封板膜盖住反应板，37 $^{\circ}$ C 水浴锅或恒温箱避光孵育 15min。
- 8、所有孔加入终止液 50 μ L，在 450nm 波长酶标仪上读取各孔吸光度（OD 值）。



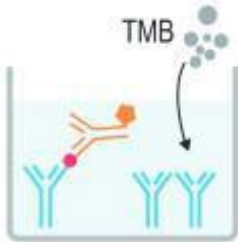
操作流程图



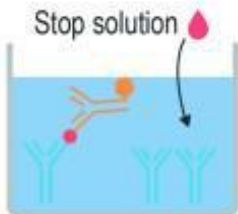
1. 对应板孔中加入50 μ L标准品工作液或样本后，立即每孔加入100ulHRP酶标抗体工作液，37 $^{\circ}$ C孵育60分钟



2. 弃掉板内液体，洗板5次



3. 每孔加入底物A溶液50ul，底物B溶液50ul



4. 每孔加入50 μ L终止液

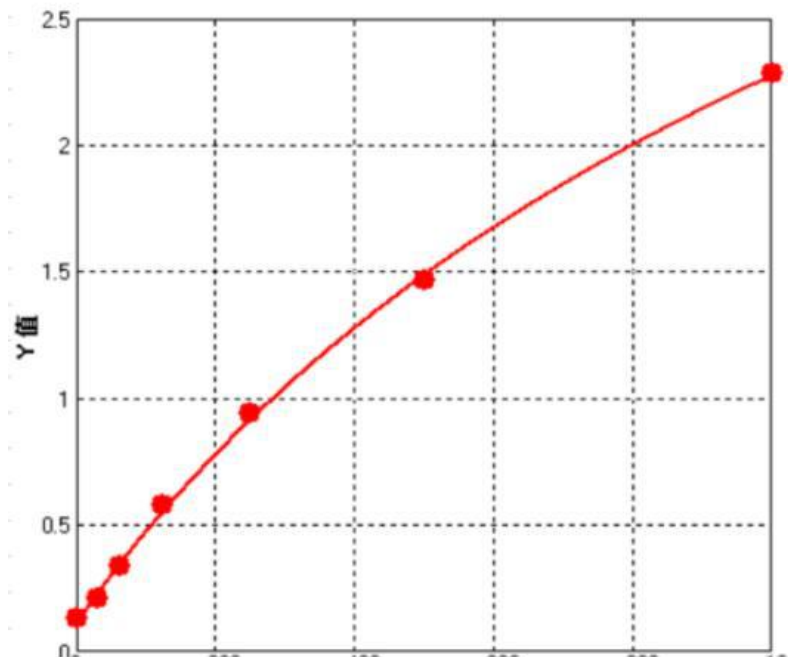


5. 立即在450nm波长下读数，处理数据



结果计算

9、以标准品浓度做为横坐标，对应的吸光度（OD 值）作为纵坐标，利用计算机软件，采用四参数 Logistic 曲线拟合（4-p1），创建标准曲线方程，通过样品的吸光度（OD 值），利用方程计算样品的浓度值。【用 ELISA Calc 软件计算，标曲建议使用四参数拟合，但不是唯一拟合方式】10、如果样品被稀释，通过上述方法测的的浓度值，要乘以稀释倍数，才是样品的最终浓度。注意：实验者需根据自己的实验建立标准曲线。每次检测，每块酶标板都必须设立标准曲线。以下曲线仅供参考！



（标曲示意图，仅供参考）

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[问题分析] 若实验效果不好，请及时对显色结果拍照，保存实验数据，保留所用板条及未使用试剂，然后联系我公司技术支持为您解决问题。同时您也可以参考以下资料：[问题解答]

| 问题描述 | 可能原因 | 相应对策 |
|--|---|--|
| 标准曲线梯度差 | 吸液或加液不准 | 检查移液器及吸头 |
| | Equilibration time is too short | Ensure sufficient balancing time |
| | Incomplete washing | Ensure the washing time and number of washes and the amount of liquid added to each hole |
| 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 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 | |
| Reading value is low | Microplate reader settings are incorrect | Check the wavelength and filter |
| | | 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 | Improper storage of ELISA kits | Store relevant reagents according to |
| | Not terminated before reading | Stop solution should be added to |



statement

1. 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. 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 occur. 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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