V02

DAB 显色试剂盒（金属增强法）

货号：DA1015
规格：60mL
保存：2-8℃，避光保存，有效期 1 年。

产品组成：

试剂名称	60mL	保存
试剂(A):溶液 A	3mL	2-8℃，避光
试剂(B):溶液 B	3mL	2-8℃，避光
试剂(C):溶液 C	60mL	2-8℃
临用前按照 1:1:18 的比例混匀即为 DAB 显色工作液。		

产品介绍：

DAB 显色试剂盒是一种借助辣根过氧化物酶(HRP)反应，可用于免疫组化显色、原位杂交显色或 Western、Southern、Northern、EMSA 等膜显色的试剂盒。DAB 是辣根过氧化物酶的常用底物。在辣根过氧化物酶的催化下，DAB 会产生棕色沉淀。该棕色沉淀不溶于水和乙醇，可用于正常脱水封片。

本产品采用特殊配方，利用 DAB 和多种金属离子能形成不同颜色的稳定复合物的原理，在配方中额外添加了金属盐对 DAB 反应进行了增敏调色。能达到比常规 DAB 显色清晰度更高的染色结果，染色结果为蓝黑色，适合于蛋白印迹、免疫组织化学和免疫细胞化学、斑点印迹和生物芯片等的染色和显色反应。

操作步骤：(*仅供参考*)

1、 对于组织切片或蛋白质印记膜，在与辣根过氧化物酶（HRP）标记的抗体或其它形式的探针孵育后，用适当洗涤液洗涤 3-5 次，每次 3-5 分钟。（见注意事项 1）
2、 将溶液 A、B、C 按照 1:1:18 的比例混合均匀，即为 DAB 工作液，建议 4h 内使用。（见注意事项 2）
3、 向组织切片或膜上加入适量 DAB 显色工作液，确保能充分覆盖样品。（见注意事项 3）
4、 室温避光孵育 1-30 分钟，显色时间过长可引起本底增高，故应密切观察显色过程（一般 3-10 分钟最理想），并在本底较浅且达到适当显色强度时以流水漂洗终止显色反应。
5、 对于组织切片或细胞样品，显色反应终止后可对其进行其他染料（常用核固红染色液）复染。对于膜，显色反应终止后，可以室温晾干避光保存。

注意事项：

1. 洗涤液可使用1×PBS、1×PBST及其他免疫组化或膜显色中常用清洗缓冲液。
2. 试剂(A):溶液A应为淡黄色至紫红色透明液体，新配的工作液应为淡粉色或淡红色，如颜色过深或出现沉淀，请勿使用。如配好的工作液放置时间较长导致变色或出现沉淀，请勿使用。
3. 通常建议每张组织切片添加80-100ul DAB显色工作液，每平方厘米印记膜添加40-50ul DAB显色工作液，即60mL规格的DAB显色试剂盒（20×，金属增强法）可用于约600张组织切片染色或1200平方厘米的印记膜染色。
4. DAB有潜在致突变作用，为了您的安全和健康，请穿实验服并戴一次性手套操作。
5. 如显色不佳或长期不用无法确认试剂状态，可取稀释好的二抗孵育液和工作液按照1：3混匀，静置观察，混合液应在2min内变蓝黑色，10min内沉淀。

相关产品：

P1032　20×PBS，PH7.2-7.4
G1080　Mayer苏木素染液(免疫组化)
A2010　AEC底物显色试剂
DA1010　DAB显色试剂盒（20×）
DA1016　增强型DAB显色试剂盒（20×）

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DAB Chromogenic Kit(Metal-Enhanced)

Cat: DA1015
Size: 60mL
Storage: 2-8℃, avoid light, valid for 1 year.

Kit Components

Reagent	60mL	Storage
Reagent (A):Solution A	3mL	2-8℃, avoid light
Reagent (B):Solution B	3mL	2-8℃, avoid light
Reagent (C):Solution C	60mL	2-8℃
Before use, mix Reagent A, B and C as the radio of 1:1:18 to prepare DAB Working Solution.		

Production

Enhanced DAB Chromogenic kit (20×)is a kind of reagent kit for immunohistochemical chromogenic, in situ hybridization chromogenic or Western, Southern, Northern, EMSA and other membrane chromogenic with the help of Horseradish peroxidase (HRP). DAB is a common substrate of Horseradish peroxidase. Under the catalysis of Horseradish peroxidase, DAB will produce brown precipitate. The brown precipitate is insoluble in water and ethanol and can be used for normal dehydration and sealing.

This product adopts a special formula that utilizes the principle that DAB and various metal ions can form stable complexes of different colors. An additional metal salt is added to the formula to enhance the sensitivity and color adjustment of DAB reaction. It can achieve higher color clarity than conventional DAB staining, with a blue black staining result, suitable for staining and color reaction in protein blotting, immunohistochemistry and immunocytochemistry, dot blotting, and biochip.

Protocols (*only for reference*)

1. For tissue sections or protein imprinted membranes, after incubation with antibodies labeled with Horseradish peroxidase (HRP) or other forms of probes, rinse 3-5 times with appropriate washing solution for 3-5 min each time. *(See Note 1*)
2. Mix Solution A, B, and C evenly in a ratio of 1:1:18 to form DAB Working Solution. It is recommended to use within 4 hours. (*See Note 2*)
3. Add an appropriate amount of DAB Working Solution to the tissue slice or membrane to ensure sufficient coverage of the sample. (*See Note 3*)
4. Incubate at room temperature in dark for 1-30 min. If the chromogenic time is too long, it can cause an increase in background. Therefore, the chromogenic process should be closely observed (usually 3-10 min is optimal), and the chromogenic reaction should be terminated by rinsing with running water when the background is shallow and reaches the appropriate chromogenic intensity.
5. For tissue sections or cell samples, after the chromogenic reaction is terminated, other dyes (commonly used Nuclear Fast Red staining solution) can be used for re staining. For the film, after thechromogenic reaction is terminated, it can be dried at room temperature and stored away from light.

Note

1. Rinsing solution can use 1×PBS, 1×PBST and other commonly used washing buffers in immunohistochemistry or membrane chromogenic.
2. Reagent (A): Solution A should be a light yellow to purplish red transparent liquid, and the newly prepared working solution should be light pink. If the color is too dark or precipitates appear, do not use it. If the prepared working solution has been left for a long time, causing discoloration or sedimentation, please do not use it.
3. It is usually recommended to add 80-100ul DAB Working Solution to each tissue, and 40-50ul DAB Working Solution to each square centimeter of imprinting film. It is that a 60mL DAB Chromogenic Kit(20×, Metal-Enhanced) can be used for staining approximately 600 tissue sections or staining imprinted membranes with an area of 1200 square centimeters.
4. DAB has potential mutagenic effect. For your safety and health, please wear coat and disposable gloves.
5. If the chromogenic reaction is poor or cannot confirm the reagent quality for long time, can mix diluted secondary antibody incubation solution and DAB Working Solution in a ratio of 1:3, and left to stand for observation. The mixture should turn blue black within 2 min and precipitate within 10 min.