

AEC Coloring System

Cat#:2030611/2030613

[Introduction]

Horseradish peroxidase (HRP) in the presence of hydrogen peroxide (H₂O₂) catalyzes colorless AEC(3-amino-9-ethylcarbazole, C₁₄H₁₄N₂), which forms intense red color spots, so it has been widely used for chromogenic reaction in the immunohistochemistry, western blot and ELISPOT. This kit is special for ELISPOT based on PVDF membrane.

[Contents of kit]

Product Name	Cat No.	Component Name	Component Size	Quantity
AEC coloring system manual	2030611	AEC Dilution	10 mL	1 bottle
		AEC Solution I (20×)	500 μL	1 vial
		AEC Solution II (20×)	500 μL	1 vial
		AEC Solution III (200×)	50 μL	1 vial
	2030613	AEC Dilution	50 mL	2 bottles
		AEC Solution I (20×)	3 mL	2 bottles
		AEC Solution II (20×)	3 mL	2 bottles
		AEC Solution III (200×)	500 μL	2 vials

* All reagents stored at 2°C~8°C, shelf life of 12 months.

[Usage]

1. Prepare the AEC coloring working solution before the chromogenic reaction, don't reuse.
2. AEC Dilution: AEC Solution I: AEC Solution II: AEC Solution III =180:10:10:1. Please refer to the following table. (Notice: Add AEC Solution III finally) .

Total volume	AEC Dilution	AEC Solution I(20×)	AEC Solution II(20×)	AEC Solution III(200×)
1 mL	0.9 mL	50 μL	50 μL	5 μL
2 mL	1.8 mL	100 μL	100 μL	10 μL
3 mL	2.7 mL	150 μL	150 μL	15 μL
4 mL	3.6 mL	200 μL	200 μL	20 μL
5 mL	4.5 mL	250 μL	250 μL	25 μL
8 mL	7.2 mL	400 μL	400 μL	40 μL
10 mL	9 mL	500 μL	500 μL	50 μL
20 mL	18 mL	1 mL	1 mL	100 μL
25 mL	22.5 mL	1.25 mL	1.25 mL	125 μL
50 mL	45 mL	2.5 mL	2.5 mL	250 μL
80 mL	72 mL	4 mL	4 mL	400 μL

3. After mixing thoroughly, add 100 μL AEC coloring working solution per well, cover lid and incubate for 15~45 minutes at room temperature in dark. (Notice: Monitor spot formation visually by checking the plates every 5~10 minutes until clear spot formation).

[Tips]

1. Be caution when working with AEC coloring working solution, because of AEC Solution II containing dimethylformamide (DMF) that is harmful to skin, eyes and respiratory tract. Rinse immediately with plenty of clean water and seek medical advice once get contaminated.
2. Store the kit at 2°C~8°C in dark, reduce contact with air directly.
3. The solution after mixing is easy to deactivation at room temperature. (half-life of AEC Coloring System is about 30 minutes), prepare the solution immediately prior to use.

[Company Information]

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