

Product information

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Sensitive DAB Stain Kit

Catalog #: PW023
Size: 5 preps
Storage: Mixed components storage*

*: Product will be shipped with ice pack. Check storage conditions.

Product Description:

DAB, namely, 3, 3'-diaminobenzidine, as a chromogenic substrate of Peroxidase will lose electrons, produce a gradual colour change and form insoluble dark brown matter when encountering H_2O_2 . It can also be used for detection of activity of Peroxidase. When adding enhancer, the kit will have high sensitivity and can be used for immunochemical and western blot and so on.

Storage and Transportation:

After received, store Solution A and Solution C at $-20^{\circ}C$ and avoid light, store Reaction buffer and Solution B at $2-8^{\circ}C$.

Composition:

Reaction Buffer	50 ml
Solution A	1 ml
Solution B	0.51 ml
Solution C	0.12 ml

Usages:

1. In western blot experiments, when the membrane was immersed by the corresponding HRP second antibody, incubate at $37^{\circ}C$ and vibrate at rotator for more than one half an hour. Then wash the membrane with TBST or BPST wash buffer for 5 minutes and repeat the wash step for 3-4 times. Then keep the membrane at dark place.
2. Before carrying out chromogenic reaction, pipette 10 ml reaction buffer, 0.2 ml solution A, 100 μ l solution B and 20 μ l solution C into a clean 15 ml brown bottle, then vortex and keep for the following experiments.
3. In a dark place, transfer the above 10 ml mixed solution into the container that have the membrane, incubate at $37^{\circ}C$ and vibrate at rotator for about 5 minutes or so, dark brown insoluble matter will appear on membrane.
4. Decant the above solution, then wash the membrane with ddH_2O for 3-4 times.
5. Take photo and analyze the result

Notes:

1. Before usage, heat Solution A to $37^{\circ}C$ to dissolve precipitates. Control the colour reaction time in 3-5 minutes or so, in case of exceeding colour. Further time may effect the analysis of the result and have high noise-signal ratio.
2. After usage, please tightly screw lid of Reaction buffer, Solution A, Solution B and C, in case the solution will volatilized and reacted with the components of air. Please wear gloves and protective clothes when handling Solution A and Solution B.
3. Recommend use 6 x 8 cm size membrane. When using a big membrane, please add the quantity of reagents proportionally, so as to completely immerse the membrane.
4. Please correctly prepare the reagent for western blot, membrane transference, antibody dilution and wash procedure, so as to reduce noise and have correct colour reaction.

5. Store Solution A and Solution C at -20°C and avoid light; store the other reagents at low temperature. The complete colour reaction solution must be prepared on the spot, the residual mixture must be discarded.
6. All of reagents can only be used for in vitro experiments. Container that comes in contact Solution A and B must be immersed in the buffer (.3% KMnO_4 , 2% NaCO_3) for >3 hours, and then washed with dd H_2O , so as to reduce damage to surrounding.



PRODUCTS ARE INTENDED FOR BASIC SCIENTIFIC RESEARCH ONLY.
NOT INTENDED FOR HUMAN OR ANIMAL USE.