

Product No. 06380

Histo VT One (10x, pH7.0)

Histo VT One is an antigen retrieval solution for immunohistochemistry and in situ hybridization. This product can unmask antigenic sites without damage to antigen from formalin-fixed, frozen or paraffin-embedded tissue sections.

Protocol

Preparation of antigen retrieval solution

Dilute 10 times with ion-exchanged water, shake and mix it gently.

For paraffin section

- (1) Pour antigen retrieval solution in a glass container, heat up to 90°C using a water bath. ^(a)
- (2) Incubate deparaffinized slide in the heated antigen retrieval solution for 20 min at 90°C. ^{(a)(b)}
- (3) Wash the slide with ion-exchange water or buffer solution (TBS or PBS). Repeat three times.
- (4) Proceed with blocking step using appropriate blocking solution (ex. Blocking One, Product No.: 03953-95) After blocking, the slide is ready for subsequent antigen-antibody reaction.

For frozen section

- (1) Pour antigen retrieval solution in a glass container, heat up to 70°C using a water bath. ^(a)
- (2) After formalin fixation and freeze embedment incubate the dried frozen section in the heated antigen retrieval solution for 20 min at 70°C. ^(a)
- (3) Wash frozen section with ion-exchange water or buffer solution (TBS or PBS). Repeat three times.
- (4) Proceed with blocking step using appropriate blocking solution (ex. Blocking One, Product No.: 03953-95). After blocking, the slide is ready for subsequent antigen-antibody reaction.

In situ hybridization^(c)

- (1) Wash the deparaffinized slide thoroughly.
- (2) Pour antigen retrieval solution in a glass container, heat up to 90-100°C using a water bath. ^(a)
- (3) Incubate the slide in the heated antigen retrieval solution for 40 min at 90-100°C. ^(a)
- (4) Wash the slide with DEPC treated water thoroughly.
- (5) Mount tissue sections with 70% formamide-2xSSC buffer. Incubate for 5 min at 100°C on a heat block.
- (6) Remove 70% formamide-2xSSC buffer from tissue sections. Dehydrate tissue sections in an ethanol-dry ice bath.
- (7) Hybridize using fluorescence-labeled probes at 45°C for over night.
- (8) Wash tissue sections with 0.1x SSC buffer.
- (9) Wash tissue sections with buffer (TBS or PBS).

Caution

- a. Using microwave for heating solution may cause bubbles in sample. Use water bath for heating.
 - b. Incubation time depends on the type of tissues. It is recommended to incubate for 40 min for detection of intranuclear proteins.
 - c. Use nuclease-free instruments for in situ hybridization. Use nuclease-free water such as DEPC treated water. Suitable temperature and formamide concentration for hybridization depend on basic composition.
- The product includes detergent and may cause clouds in solution when heated, however, it does not affect the results.
 - Wear protective chemical-resistant cloths, gloves and safety eye-wear while handling the product.
 - If the product accidentally comes into contact with skin, thoroughly wash it away with copious amount water. Call a physician, if necessary.

— Storage —

Room temperature

— Expiration —

One year from manufacturing. Expiration date is stated on the product label (Exp. yy / mm)

— Packing —

500 ml (Product No. 06380-05)