

**Product No. 06380**

# HistoVT One (10x,pH7.0)

Histo VT One is an antigen retrieval solution for immunohistochemistry and in situ hybridization. This product can unmark 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 deionized 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. <sup>(a)</sup>
2. Incubate deparaffinized slide in the heated antigen retrieval solution for 20 min at 90°C. <sup>(a)(b)</sup>
3. Wash the slide with deionized 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)]. 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. <sup>(a)</sup>
2. After formalin fixation and freeze embedment incubate the dried frozen section in the heated antigen retrieval solution for 20 min at 70°C. <sup>(a)</sup>
3. Wash frozen section with deionized 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)]. After blocking, the slide is ready for subsequent antigen-antibody reaction.

### In situ hybridization <sup>(c)</sup>

1. Wash the deparaffinized slide thoroughly.
2. Pour antigen retrieval solution in a glass container, heat up to 95-100°C using a water bath. <sup>(a)</sup>
3. Incubate the slide in the heated antigen retrieval solution for 40 min at 95-100°C. <sup>(a)</sup>
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

- <sup>(a)</sup> Using microwave for heating solution may cause bubbles in sample. Use water bath for heating.
- <sup>(b)</sup> Incubation time depends on the type of tissues. It is recommended to incubate for 40 min for detection of intranuclear proteins.
- <sup>(c)</sup> 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

500ml (Product No.06380-05)