

HistoVT One

Antigen retrieval solution

nacalai tesque

The quality for certainty.

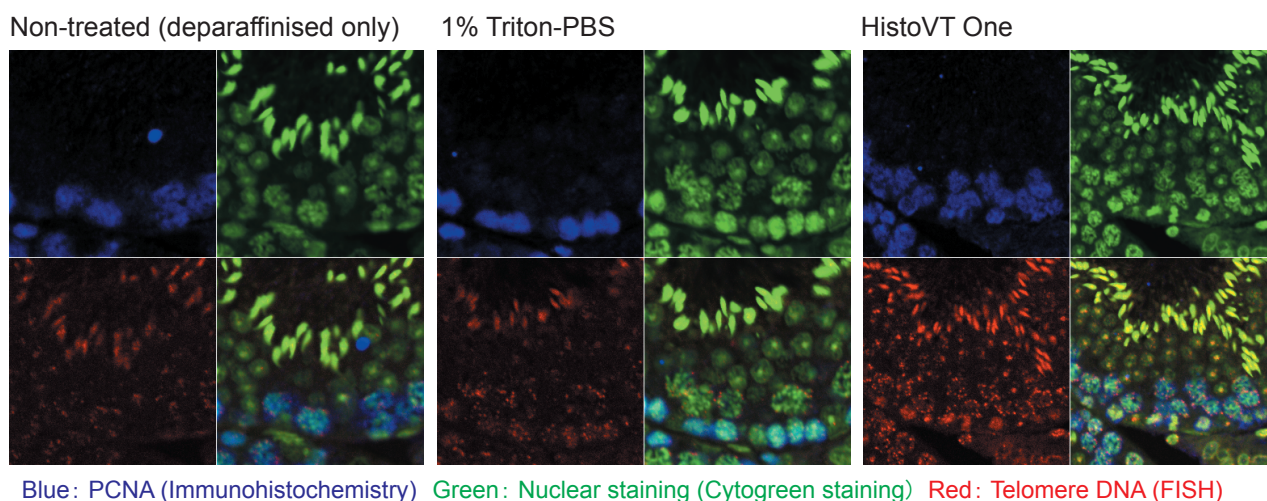


Histo VT One is an antigen retrieval solution for immunohistochemistry and in situ hybridization. This product can unmask antigenic sites without damage to antigens in formalin-fixed, frozen or paraffin-embedded tissue sections.

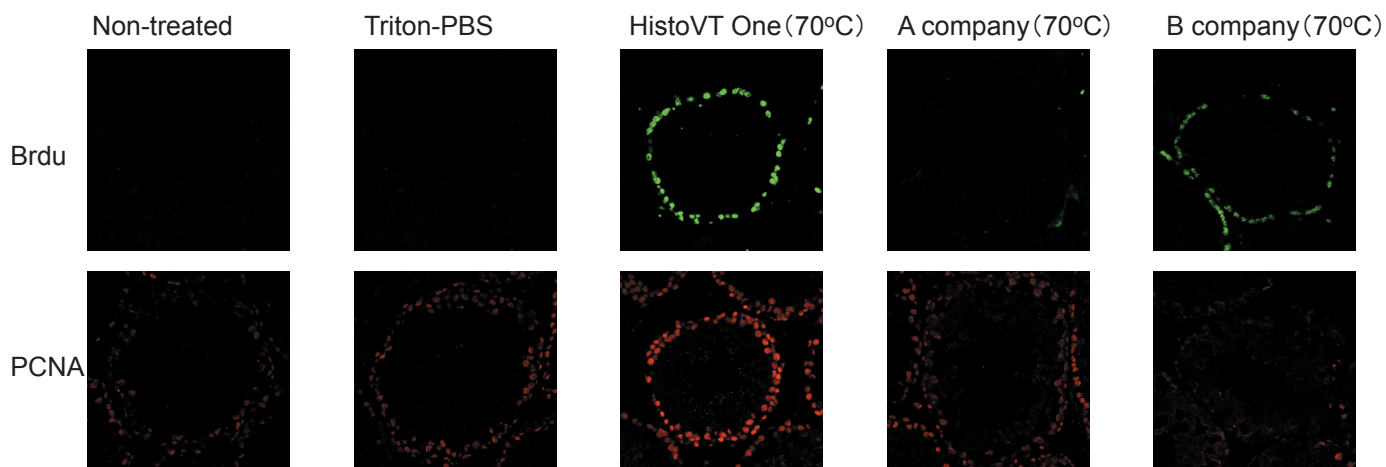
Features

- Enhancing antigen-antibody reaction
- Applicable to frozen or paraffin-embedded tissue sections
- High reproducibility

Application Data 1 Formalin-fixed, paraffine-embedded tissue sections.



Application Data 2 Frozen section



HistoVT One can unmask antigen more effectively than other treatments.

Data courtesy of
RIKEN Brain Science Institute,
Brain Development Research Group.

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 heated antigen retrieval solution for 20 min at 90°C.^(a)
- (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)
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^(b)

- (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. - 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.

Ordering information

Product name	Grade	Storage	Product number	PKG Size
HistoVT One (10x, pH 7.0)	SP	RT	06380-05	500 ml

For research use only, not intended for diagnostic or drug use.

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