

**Pepsin Solution**  
Enzymatic Antigen Retrieval Solution

Storage: 2-8°C

Catalog No: E06-50 50 ml

**Intended Use:**

Formalin or other aldehyde fixation often forms protein cross-links. Sometimes, extensive cross linking of proteins in high concentration can mask the isotope of the antigen in tissue sample, which leads to poor staining or no staining. Enzyme digestion, in some cases, becomes a necessary step for successful immunohistostaining<sup>1-2</sup>. Pepsin Solution is designed to break the cross-links, therefore enhance immunohistochemical stains on formalin-fixed paraffin-embedded tissue.

**Kit Component:**

Liquid 50 ml. This product is supplied as a ready-to-use form

**Recommended Protocol:**

- 1) Deparaffinize and rehydrate slides
- 2) Quench endogenous peroxidase activity if necessary
- 3) Rinse slides in distilled water three times, 2 minutes each
- 4) Take adequate amount needed of Pepsin Solution and pre-warm in 37°C incubator for 10 minutes
- 5) Apply 3-4 drops of Pepsin Solution to cover tissue sections
- 6) Incubate for 10-30 minutes at 37°C \*
- 7) Rinse slides in PBS three times, 2 minutes each
- 8) Resume standard immunohistochemistry staining procedure

*\*Incubation time is important factor to consider, depending on tissue type and fixation.*

**Storage:**

Store at 2-8°C. Return the reagent back to 2-8°C after each use.

**Remarks:**

For research use only. Not for diagnostic or therapeutic use.

**References:**

1. Ezaki T. *Micron* 31(6): 639-49, 2000
2. Chin S-F, et al. *Molecular Pathology*. 56(5): 275-279, 2003