

Product Information

Pepsin Reagent, Ready to Use Antigen Retriever

Catalog Number **R2283**

Storage Temperature 2–8 °C

Synonym: Antigen Retrieval Solution

Product Description

Pepsin is used for proteolytic digestion of formalin-fixed paraffin-embedded (FFPE) tissue sections prior to application of antibodies.

In immunohistochemistry (IHC), most commonly used fixatives such as formalin mask tissue antigens (cellular, membrane, and nuclear) by their intrinsic crosslinking. This masking results in poor or no staining in IHC. Pepsin digestion of FFPE tissue sections improves accessibility of antibodies to tissue antigens.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store the product at 2–8 °C. DO NOT FREEZE.

Procedure

Please refer to primary antibody protocol.

1. Deparaffinize FFPE tissue section as outlined in the primary antibody protocol. Hydrate tissue with phosphate buffered saline.
2. Remove buffer and add 2–4 drops of Pepsin Reagent to cover the tissue section.
3. Incubate at 37 °C or at 56 °C for 5–10 minutes. The time required for optimal digestion of FFPE tissue section will vary with the extent of fixation. In general, 5–10 minutes are sufficient at the above temperatures, although some cases may require a 15 minute digestion.
4. Discard Pepsin Reagent. Wash the slides 3-5 times with buffer.
5. The tissue sections are ready for further IHC staining.

Notes: Pepsin Reagent is NOT recommended for use with Cytokeratin (clone AE3) antibodies.

Over-digestion may detach tissue sections from slides or may result in the loss of tissue morphology. For these tissues, it may be necessary to use positively charged, silanized, or poly-lysine coated slides.

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