Antigen Retrieval Reagents

Catalog Numbers: CTS013
CTS014
CTS015
CTS016

Reagent and Storage Specifications

Description Antigen Retrieval Reagent-Basic* (Catalog # CTS013), Antigen Retrieval Reagent-Acidic* (Catalog # CTS014) and Antigen Retrieval Reagent-Universal (Catalog # CTS015) are three different antigen retrieval systems that utilize a heat-induced recovery of cell and tissue antigens. Antigen Retrieval Reagents-Sampler Pack (Catalog # CTS016) contains all three reagents in one convenient pack.

Component Each reagent is supplied as a 10X concentrate (50 mL).

Storage Store at room temperature. Do not use past the expiration date indicated on the vial.

Protocol

1. Make the working Retrieval Solution by mixing 1 part of 10X Retrieval Concentrate with 9 parts of deionized water.
2. Preheat Retrieval Solution to 92 - 95° C by placing a polypropylene Coplin staining jar filled with Retrieval Solution into a water bath.
   Note: *Heating may cause cracking of glass staining dishes.*
3. Insert slides with tissues into the preheated Retrieval Solution and incubate for 2 - 10 minutes.[+]
   Note: *Cryostat sections are less resistant to damaging effects of Retrieval Solution than paraffin-embedded tissues. To avoid tissue damage, it may be necessary to decrease the incubation time to 2 - 5 minutes for cryostat sections.*
4. Following incubation, place the jar containing the Retrieval Solution and slides on a lab bench and cool to room temperature (approximately 5 - 10 minutes).
5. Rinse slides with distilled water and then re-rinse with PBS.
   Note: *Since retrieval procedure may reduce adhesivity of tissues to histological slides, avoid vigorous rinsing.*
6. Proceed with immunohistochemistry protocol as usual.

*Unlike Universal solution, Acidic and Basic solutions may have dramatic enhancement of immunoreactivity but may also affect tissue morphology.

[+]The optimal antigen unmasking condition is a function of temperature (90 - 100° C) and incubation time (up to 30 minutes) and should be established by each individual investigator.

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