

For Research Use Only

# Protease K Antigen Retrieval Buffer

Catalog Number: PR30014



## Description

PR30014 is a protease K based solution that can be used for performing protease-induced epitope retrieval (PIER) in immunohistochemistry applications. While treating tissues with formalin and xylene are necessary steps for fixation and deparaffinization in an immunohistochemistry workflow, such treatments often result in protein cross-linking leading to the masking of antigenic sites and the subsequent inhibition of antigen-antibody interactions. Antigen retrieval helps restore the structure of such proteins by breaking the cross-links and unmasking the antigenic sites, thereby making them more accessible to antibodies.

**Note: In molecular biology, proteinase K is also known as protease K and is a broad-spectrum serine protease.**

## Components

0.2 mL Protease K 100x Stock + 20 mL Diluent.

## Package

20 mL

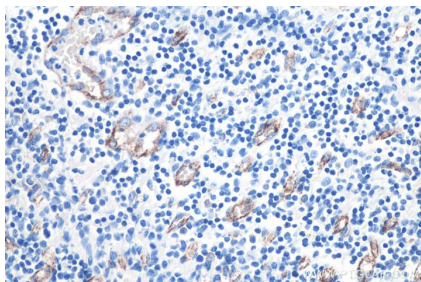
## Storage

Shipped at -20°C. Store Protease K 100x Stock at -20°C and Diluent at 4°C or -20°C upon receipt. The product is stable for 6 months from the date of receipt.

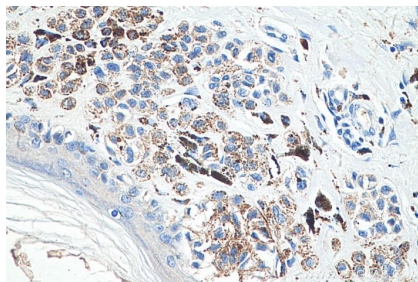
## Application Note

1. Dilute to 1x before use.
2. Calculate how much antigen retrieval buffer will be needed for the experiment to prepare an appropriate amount of 1x working solution. The working solution has a shorter shelf life than the concentrate.

## Validation Data



IHC analysis of human tonsillitis tissue with Proteintech's VWF rabbit polyclonal antibody (27186-1-AP). Protease-induced epitope retrieval was performed by incubating at 37°C for 5 minutes in Protease K Antigen Retrieval Buffer (PR30014).



IHC analysis of human malignant melanoma tissue with Proteintech's ALPP mouse monoclonal antibody (60294-1-Ig). Protease-induced epitope retrieval was performed by incubating at 37°C for 15 minutes in Protease K Antigen Retrieval Buffer (PR30014).

**For technical support and original validation data for this product please contact**

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