Antigen Retrieval Buffer
(Cat# C8031; ready-to-use buffer; store at 4 ºC)

Introduction

Sodium citrate buffers are commonly used for antigen retrieval of tissue samples. The citrate solution is designed to break protein cross-links; thus, unmasking antigens and epitopes in formalin-fixed and paraffin embedded tissue sections, resulting in enhancing staining intensity of antibodies. Citrate has anticoagulant activity and as a calcium chelator, it forms complexes that disrupt the tendency of blood to clot.

ABS_Bio™ ready-to-use Antigen Retrieval Buffers are pre-mixed 10 mM Sodium citrate and 0.05 % Tween-20 solutions, pH 6.0 for tissue sample antigen retrieval protocol. DNase-, Rnase-, phosphates and Protease-Free.

Kit Components

Antigen Retrieval Buffer: 500 mL

Storage and Handling: Store all of the components at 4 ºC. Shelf Life: 12 months after receipt.

Features for All of Solution & Buffers

Formulated from analytical grade chemicals.
Ideal for standardizing laboratory work.
Ready to use in minutes.

Applications

Molecular Biology and Biochemistry applications
Immuno-histochemical staining

Protocol

Note: this buffer is commonly used and works perfectly with many antibodies. It gives very nice intense staining with very low background.

1. Deparaffinize sections in 2 changes of xylene, 5 minutes each.
2. Hydrate in 2 changes of 100% ethanol for 3 minutes each, 95% and 80% ethanol for 1 minute each. Then rinse in distilled water.
3. Pre-heat steamer or water bath with staining dish containing Antigen Retrieval Buffer until temperature reaches 95-100 ºC.
4. Immure sections in the staining dish. Place the lid loosely on the staining dish and incubate for 20-40 minutes (optimal incubation time should be determined by user).
5. Turn off steamer or water bath and remove the staining dish to room temperature and allow the slides to cool for 20 minutes.
6. Rinse sections in PBST (#C8008) for 2x2 min.
7. Block sections with for 30 minutes.
8. Incubate sections with primary antibody at appropriate dilution in primary antibody dilution buffer for 1 hour at room temperature or overnight at 4 ºC.
9. Rinse sections with PBST for 2x2 min.
10. Block sections with peroxidase blocking solution for 10 minutes.
11. Rinse with PBST for 3x2 min.
12. Proceed to standard immunohistochemistry protocol.

Related Products:

TMB substrate solution(#C8010)
ELISA Washing Buffer(20x, 25mL; #C8003)
Protein Loading Buffer(6x; #C8005)
Phosphate Buffered Saline (10x PBS, #C8007)
Phosphate Buffered Saline(1xDPBS, #C8012)
Protein Colorimetric Detection Kit(#K136-200)
TAE Buffer(10x, #C8015)
RIPA Buffer(#C8017)
TE Buffer(#C8020)

ELISA Blocking Buffer(5x 25mL; #C8002)
Antibody Dilution Buffer(#C8004)
SDS-PAGE Running Buffer(10x ; #C8006)
Phosphate Buffered Saline with Tween 20(10x PBS-T; #C8008)
PAGE-gel transfer buffer(10x, #C8014)
Protein Fluorimetric Detection Kit(#K138-200)
TBE Buffer(10x, #C8016)
Cell Lysis Buffer(#C8019)
DNA Loading Buffer(#C8021)