INSTRUCTIONS

Peroxidase Suppressor

35000

0563.2

Number	Description
35000	**Peroxidase Suppressor**, 100mL, contains suppressor in a methanol solution

Storage: Upon receipt store at 4°C. Product is shipped at ambient temperature.

Introduction

The Thermo Scientific Peroxidase Suppressor is a stable, easy-to-use suppressor of endogenous peroxidase activity optimized for immunohistochemical applications. Inhibiting endogenous peroxidase activity is essential for avoiding false positives. The exact requirements for inhibition vary with respect to different tissue fixations and organs.

Procedure for Immunohistochemical Staining

- Prepare control slides to determine if inhibition occurs after the Peroxidase Suppressor treatment.
- Perform all incubations in a humidity chamber.

1. Block nonspecific sites in the tissues with normal serum or other blocking solution such as Thermo Scientific SuperBlock Blocking Buffer in TBS (Product No. 37535) for 30 minutes at room temperature.
2. Incubate tissue with the primary antibody for 30 minutes at room temperature.
3. Wash the tissue in buffer (e.g., PBS or TBS) twice for 3 minutes each. Remove excess wash buffer.
4. Mix the Peroxidase Suppressor well and add 1-2 drops to cover the tissue. Incubate for 15-30 minutes at room temperature.
5. Wash the tissue in buffer twice for 3 minutes each. Remove excess wash buffer.
6. Incubate tissue with horseradish peroxidase conjugated secondary antibody for 30 minutes at room temperature.
7. Wash the tissue in buffer twice for 3 minutes each. Remove excess wash buffer.
8. Incubate slides with a precipitating substrate for horseradish peroxidase such as Metal Enhanced DAB Substrate (Product No. 34065).

References

Köller, U., *et al*. (1986). A rapid and simple immunoperoxidase staining procedure for blood and bone marrow samples. *J Immunol Methods* **86:**75.

Streefkerk, J.G. (1972). Inhibition of erthrocyte pseudoperoxidase activity by treatment with hydrogen peroxidase following methanol. *Nature* **330:**80.

Fink, B. *et al*. (1979). Demonstration of viral antigen in cryostat sections by a new immunoperoxidase procedure eliminating endogenous peroxidase activity. *J Histochem Cytochem* **27:**1299.

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