

DATA SHEET

Power Block™ Universal Blocking Reagent

Doc. No.932- HK085, Rev. No. H
Release Date: 18-Jul-2024

Description

HK085-5K:100ml of 10X concentrated buffered casein solution with preservative

Intended Use

Power Block™ reagent, with casein, is capable of reducing the nonspecific background staining often associated with immunolabeling techniques such as immunohistochemistry, immunogold, ELISA and immunoelectron microscopy. Casein has been shown to be a superior blocking reagent compared to serum proteins¹⁻³. Working strength Power Block™ reagent can also be used as a primary antibody diluent, especially with antibodies that produce high background such as kappa and lambda.

Note: Power Block™ reagent contains sodium azide at concentrations less than 0.1%. This is not appropriate as a wash buffer in procedure steps immediately prior to application of horseradish peroxidase (HRP) label.

Storage

Storage at 2-8°C.

Handling and Disposal

Harmful if swallowed, inhaled, or absorbed through the skin. Use of gloves is recommended. .

This reagent contains sodium azide at concentrations of less than 01%. Sodium azide is not classified as a hazardous chemical at the concentration of this product. However, toxicity information regarding sodium azide at the product's concentration has not been thoroughly investigated. For more information, a Material Safety Data Sheet (MSDS) for sodium azide in pure form is available upon request.

**General Purpose Reagents, suitable for diagnostic
Histopathology, laboratory and research use.**

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Reagent Supplied

100 ml of 10X concentrated buffered casein solution with preservative

Preparation

1. Dilute concentrated Power Block reagent, 1 part Power Block reagent to 9 parts deionized water. The pH of the working solution is 7.4-7.6.
2. Keep the working solution refrigerated at 2-8 C when not in use.

Note: A precipitate may form during storage due to the high concentration of casein. Use the liquid above the solid. This will not affect test results.

METHOD OF USE

Working strength Power Block reagent can be used to reduce background staining due to nonspecific binding of primary or secondary antibodies. For immunohistochemical applications. Power Block reagent should be applied prior to primary antibody in the following manner.

Add sufficient number of drops (2-5) to cover each tissue section entirely, and incubate for 5 to 10 minutes at room temperature.

IMPORTANT: Power Block reagent is a potent blocker and it should not remain on the tissue more than ten minutes.

REFERENCES

1. Butz, W., et al. Improved manual immunohistochemistry employing orbital mixing of reagents during incubation. Appl Immunohistochem 2:65-67, 1994.
2. Tacha, D., McKinny, L. Casein reduces nonspecific background staining in immunolabeling techniques., J. Histotechnol 15:127-131, 1992
3. Vogt, R.G., et al. Qualitative differences among various proteins as blocking agents for ELISA microtiter plates. J. Immunol Methods 101:43-50, 1985.

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