

KPL Peroxidase-Labeled Streptavidin for Immunohistochemistry

Catalog No.
5550-0001 (71-00-38)

Size
50 mL

DESCRIPTION

Streptavidin is a 60,000 dalton protein isolated from the bacterium *Streptomyces avidinii* and binds four molecules of biotin with high affinity ($K_d = 10^{-15} \text{ M}^{-1}$). Streptavidin is covalently linked with peroxidase by a modification of the periodate method of Nakane and Kawaoi⁽¹⁾.

CONTENT

Product is provided as a liquid at use dilution (approximately 2 µg/mL).

STABILIZERS AND PRESERVATIVES

Bovine serum albumin added as protein stabilizer. A proprietary biological preservative is added. DO NOT USE SODIUM AZIDE. Non-sterile. Stable for a minimum of 1 year from date of receipt when stored at 2-8°C.

E/P RATIO

Molar enzyme/streptavidin protein ratio = 2.5:1.

SUGGESTIONS FOR USE

KPL Peroxidase-labeled Streptavidin is provided at an optimal working concentration for use with KPL biotin-labeled secondary antibodies in immunohistological applications. Following incubation of the specimen with primary and biotin-labeled secondary antibody, flood the slide with KPL Peroxidase-labeled Streptavidin and incubate for 30 minutes at room temperature. After incubation, rinse the slide with wash buffer and soak slide in wash buffer for five minutes before applying a peroxidase substrate for immunohistochemistry.

UNIVERSAL KIT REAGENTS

KPL Peroxidase-labeled Streptavidin is a component of the KPL HistoMark® Universal Streptavidin Kits for use with:

Mouse Primary Antibodies: 5520-0023 (71-00-18)

Rabbit Primary Antibodies: 5520-0024 (71-00-19)

SUBSTRATES

SeraCare offers the following peroxidase substrates for immunohistochemistry:

KPL TrueBlue Substrate:	5510-0030 (50-78-02)
KPL DAB Reagent Set:	5510-0031 (54-10-00)
KPL HistoMark ORANGE:	5510-0033 (54-74-00)
KPL HistoMark BLACK:	5510-0034 (54-75-00)

PRODUCT NOTE

Horseradish peroxidase is inactivated in the presence of hydrogen peroxide by reacting irreversibly with certain pollutants common in laboratory water supplies. If this product fails to perform as expected, check water supply for enzyme inactivation.

REFERENCES

1. Nakane, P.K., and Kawaoi, A., J. Histochem. Cytochem. 22 (1974) 1084.

PRODUCT SAFETY AND HANDLING

This product is considered non-hazardous as defined by The Hazard Communication Standard (29 CFR 1910.1200). Avoid contact with skin and eyes. In case of contact or spillage, clean with copious amounts of water.

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.