

# **Phosphatase-Labeled Streptavidin**

*for Immunohistochemistry*

**Catalog No.    Size**  
**71-00-45        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 alkaline phosphatase using a modified glutaraldehyde procedure (1).

## **CONTENT**

Product is provided as a liquid at use dilution (approximately 2  $\mu\text{g/mL}$ ).

## **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 when stored at 2 - 8°C.

## **E/P RATIO**

Molar enzyme/streptavidin protein ratio = 1.34:1

## **SUGGESTIONS FOR USE**

Phosphatase-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 Phosphatase-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 phosphatase substrate for immunohistochemistry.

## **UNIVERSAL KIT REAGENTS**

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

Mouse Primary Antibodies:	Catalog No. 71-00-29
Rabbit Primary Antibodies:	Catalog No. 71-00-30
Rat Primary Antibodies:	Catalog No. 71-00-31
Goat Primary Antibodies:	Catalog No. 71-00-44

## **SUBSTRATES**

KPL offers the following phosphatase substrates for immunohistochemistry:

HistoMark BLUE                      Catalog No. 55-70-00

Catalog N

L-698-02