

HRP Conjugated Streptavidin

Catalog No: #AP70001



Package Size: #AP70001-1 100ul #AP70001-2 500ul #AP70001-3 1000ul

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Description

Product Name	HRP Conjugated Streptavidin
Brief Description	HRP Conjugated Streptavidin
Purification	Streptavidin was coupled to horseradish peroxidase using the periodate-method. The formed preparation is purified using column chromatography.
Applications	WB IHC Southern/Northern EMSA
Concentration	1mg/ml
Formulation	0.01M Sodium phosphate, 0.25M NaCl, 50% Glycerol, pH7.4 15 mg/ml Bovine Serum Albumin (IgG-Free, Protease-Free)
Storage	Store at -20°C , stable for up to one year

Application Details

WB: 1:1000-1:4000

IHC: 1:200 - 1:500

Southern/Northern: 1:2000-1:5000

EMSA: 1:2000-1:5000

Background

Streptavidin was coupled to horseradish peroxidase using the periodate-method. The formed preparation is purified using column chromatography. Streptavidin is a 53 kDa tetrameric protein composed of identical subunits. Each streptavidin subunit binds one biotin molecule with a high degree of affinity and specificity with KD of $\sim 1 \times 10^{-15}$ M which makes it one of the strongest known non-covalent interactions. Streptavidin is isolated from *Streptomyces avidinii* for use in isolation and detection bioassays.

- Schrenk, J. & Kurzinger, K. (1986) *Med. Lab. Sci.* 43,269.
- Updyke, T.V. and Nicolson, G.L. (1984) *J Immunol Methods* 73,83-95.
- Buckie, J.W. and Cook, G.M. (1986) *Anal Biochem* 156, 463-72.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.