

Streptavidin Protein

Streptavidin protein (HRP)

CATALOG # AAA75611	HOST Streptomyces avidinii	APPLICATIONS Western Blot, Immunohistochemistry, ELISA
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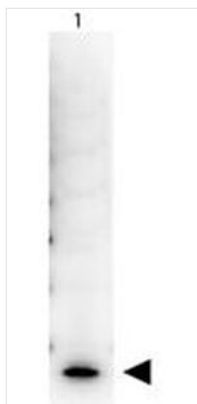
PRODUCT SYNONYMS

Streptavidin; Streptavidin protein (HRP); Streptavidin protein

PRODUCT SPECIFICATIONS

Host	Streptomyces avidinii
Purity/Purification	Streptavidin protein (HRP) was purified by Protein A affinity chromatography.
Form/Format	Supplied lyophilized from 20mM Potassium Phosphate and 150mM NaCl, pH 7.2, with 10mg/ml BSA (IgG and Protease Free), and 0.01% Gentamicin Sulfate. Reconstitute with 1ml deionized water. DO NOT add Sodium Azide!
Sequence Length	159
Applicable Applications for Streptavidin protein	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Protein Type	Binding Protein
Biological Significance	Streptavidin is a 52,800 dalton tetrameric protein purified from the bacterium Streptomyces avidinii. It has an extraordinarily high affinity for biotin (also known as vitamin B7); the dissociation constant (K _d) of the biotin-streptavidin complex is on the order of ~10 ⁻¹⁴ mol/L, making it one of the strongest non-covalent interactions known in nature. It is used extensively in molecular biology and bionanotechnology as, in addition to the high affinity, biotin-binding is resistant to extremes of pH, temperature, organic solvents, denaturants, detergents and proteolytic enzymes.
Tag/Conjugate	HRP
Additional Remarks	Do not add Sodium Azide, it inhibits horseradish peroxidase. A single precipitin arc was observed against anti-peroxidase and anti-Streptavidin when assayed by immunoelectrophoresis. No reaction was observed against anti-Avidin.
Preparation and Storage	Ships on blue ice. Upon receipt store at 4°C short term, -20°C long term while lyophilized . After reconstituted, store at 4°C for short term,-20°C . Avoid repeat freeze-thaws.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for Streptavidin protein	Purified homogeneous preparation of HRP conjugated Streptavidin protein
Product Categories/Family for Streptavidin protein	Binding Protein ; Conjugated Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	21340185
NCBI Official Full Name	streptavidin, partial

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/streptomyces-avidinii-protein/streptavidin/75611>