

Datasheet for ABIN964537  
**Streptavidin Protein (HRP)**



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## Overview

Quantity:	1 mg
Target:	Streptavidin
Origin:	Streptomyces avidinii
Host:	Please inquire
Purification tag / Conjugate:	This Streptavidin protein is labelled with HRP.
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Dot Blot (DB), Immunofluorescence (IF)

## Product Details

Purpose:	Streptavidin Peroxidase Conjugated
Specificity:	Streptavidin Peroxidase was prepared from chromatographically purified streptavidin. Streptavidin Peroxidase was assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase and anti-Streptavidin. No reaction was observed against anti-Avidin.
Purification:	Streptavidin-HRP was prepared from chromatographically purified streptavidin. Streptavidin Peroxidase conjugate was assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase and anti-Streptavidin.
Components:	Tested Applications: Dot Blot, WB Suggested Applications: ELISA, EM, IF, IHC

## Target Details

Target:	Streptavidin
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## Target Details

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Abstract: [Streptavidin Products](#)

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Background: Streptavidin is a bacterial protein (from *Streptomyces avidinii*) that has an exceptionally high binding affinity for biotin (B7). Streptavidin-biotin binding is one of the strongest known non-covalent interactions and is highly resistant to many conditions that would typically cause dissociation (such as organic solvents, denaturants, detergents, and extreme temperatures or pH). Streptavidin's affinity for biotin can be employed in a variety of experimental uses, from purifications to standards, to means of detection or pull down experiments. Horse Raddish Peroxidase (HRP) is an enzyme that utilize organic peroxide compounds as electron donors. Naturally provides protection for plants against pathogens, but can be utilized in molecular biology to convert various substrates to detectable compounds (such as in Western Blotting and ELISAs).

Synonyms: HRP, Horseradish peroxidase, SA, S avidin

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UniProt: [P22629](#)

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## Application Details

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Application Notes: Streptavidin Peroxidase has been tested by dot blot and western blot and is a useful detection reagent for primary antibodies conjugated to biotin. Streptavidin Peroxidase can be utilized in Immunohistochemistry, Immunofluorescence, immuno-EM, Western Blotting, and ELISA experiment formats in combination with the proper substrate (TMB-1000 or FEMTOMAX-110).

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Comment: Streptavidin Peroxidase is a useful detection reagent for primary antibodies conjugated to biotin. Streptavidin Peroxidase can be utilized in both Western Blotting and ELISA experiment formats in combination with the proper substrate (TMB-1000 or FEMTOMAX-110).

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Restrictions: For Research Use only

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## Handling

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Format: Lyophilized

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Reconstitution: Reconstitution Buffer: Restore with deionized water (or equivalent), Reconstitution Volume: 1.0 mL

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Concentration: 1.0 mg/mL

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Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Gentamicin Sulfate, 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

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Preservative: Gentamicin sulfate

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## Handling

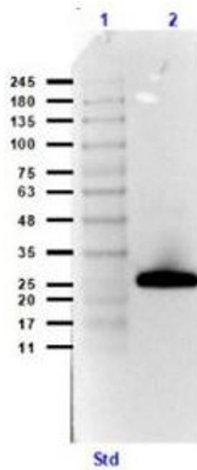
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Handling Advice:	Do NOT add Sodium Azide!
Storage:	4 °C
Storage Comment:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Streptavidin Peroxidase conjugated is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

## Publications

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- Product cited in: Metzner, Luckert, Lemuth, Hämmerle, Moos: "Towards an Electrochemical Immunosensor System with Temperature Control for Cytokine Detection." in: **Sensors (Basel, Switzerland)**, Vol. 18, Issue 5, (2018) ([PubMed](#)).
- Vasek, Garber, Dorsey, Durrant, Bollman, Soung, Yu, Perez-Torres, Frouin, Wilton, Funk, DeMasters, Jiang, Bowen, Mennerick, Robinson, Garbow, Tyler, Suthar, Schmidt, Stevens, Klein: "A complement-microglial axis drives synapse loss during virus-induced memory impairment." in: **Nature**, Vol. 534, Issue 7608, pp. 538-43, (2016) ([PubMed](#)).
- Cantoni, Bollman, Licastro, Xie, Mikesell, Schmidt, Yuede, Galimberti, Olivecrona, Klein, Cross, Otero, Piccio: "TREM2 regulates microglial cell activation in response to demyelination in vivo." in: **Acta neuropathologica**, Vol. 129, Issue 3, pp. 429-47, (2015) ([PubMed](#)).
- Cowles, Li, Semmelhack, Cristea, Silhavy: "The free and bound forms of Lpp occupy distinct subcellular locations in Escherichia coli." in: **Molecular microbiology**, Vol. 79, Issue 5, pp. 1168-81, (2011) ([PubMed](#)).



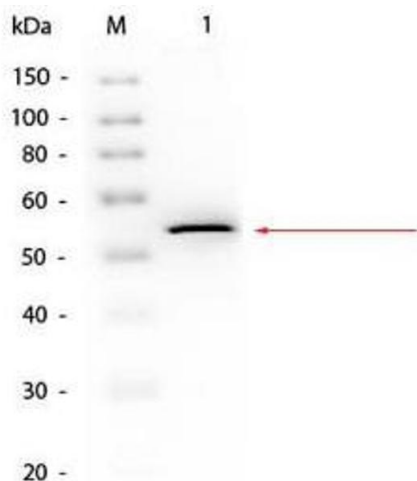
### Western Blotting

**Image 1.** Western Blot Results using Streptavidin Peroxidase Conjugate and Goat Anti-GST Biotin Conjugate Antibodies. Lane 1: Opal prestained molecular weight ladder. Lane 2: GST (ABIN964157) [0.05 µg]. Primary Antibody: Goat Anti-GST Biotin Conjugate (ABIN99864) at 1.0µg/mL overnight at 4°C. Secondary Antibody; Streptavidin Peroxidase Conjugate at 1:40,000 for 30mins at RT. Block: Blocking Buffer for Fluorescent Western Blotting (ABIN925618) for 30mins at RT. Exp: 5 sec.



### Western Blotting

**Image 2.** Western Blot of Peroxidase Conjugated Streptavidin. Lane 1: Human IL-7. Lane 2: none. Load: 50 ng per lane. Primary antibody: Human IL-7 Biotin Conjugated antibody at 1:1,000 for overnight at 4°C. Secondary antibody: Peroxidase Conjugated Streptavidin at 1:40,000 for 30 min at RT. Block: 5% BLOTTO 30 min at RT. Predicted/Observed size: 17 kDa, 17 kDa for Human IL-7. Other band(s): none.



### Western Blotting

**Image 3.** Western Blot of Goat anti-Glycerol Kinase Antibody Biotin Conjugated using Streptavidin HRP. Lane 1: Glycerol Kinase. Load: 50 ng per lane. Primary antibody: Glycerol Kinase Antibody Biotin Conjugated at 1:1000 overnight at 4°C. Secondary antibody: HRP Streptavidin (ABIN964537) secondary antibody at 1:40,000 for 30 min at RT. Block: ABIN6953293 for 30 min at RT. Predicted/Observed size: 55 kDa, 55 kDa for Glycerol Kinase.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN964537.