



Datasheet for ABIN1536533

## Streptavidin-HRP

5 Publications



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### Overview

Quantity:	1 mg
Application:	Hybridoma Screening (HS), Enzyme Immunoassay (EIA), Flow Cytometry (FACS), Northern Blotting (NB), Immunohistochemistry (IHC), Southern Blotting (SB), Western Blotting (WB)

### Product Details

### Target Details

**Background:** Streptavidin is a protein that has similar binding properties to avidin. It is isolated from *Streptomyces avidinii*. Streptavidin has a molecular weight of 60 KD and four subunits. Each subunit can bind one molecule of biotin. Biotin is a 244-dalton water-soluble vitamin. Streptavidin has an extremely high binding affinity: ( $K_d=10^{-15}$ ) for biotin. Streptavidin-HRP is streptavidin coupled to horseradish peroxidase (HRP). This highly sensitive detector conjugate binds to biotinylated primary and secondary antibodies in enzyme immunoassays, immunoblotting, immunohistochemistry, flow cytometry, and hybridoma screening systems. This conjugate also binds to nucleic acids labeled with biotinylated nucleotide analogs in Southern and northern blots.

### Application Details

**Application Notes:** Working concentrations for specific applications should be determined by titration assay. Appropriate concentrations will be affected by several factors including primary antibody, antigen amount, sensitivity of detection method, temperature, and incubation time. The following dilution ranges are recommended starting points for this product: Dot blot: 1:2,000-1:10,000 Western blot: 1:2,000-1:20,000 ELISA: 1:50,000-1:200,000 Others: User-optimized

## Application Details

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Restrictions: For Research Use only

## Handling

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Concentration: 1 mg/ml

Buffer: PBS (pH 7.4) containing 10 mg/ml BSA and 0.01% thimerosal

Preservative: Thimerosal (Merthiolate)

Precaution of Use: This product contains thimerosal (merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Storage Comment: The reagent may be stored at 4°C for short periods of one month or less. For longer periods, aliquot and store at -20°C . Avoid repeated freeze/thaw cycles. If slight precipitation occurs upon prolonged storage, clarify the solution by centrifugation before use.

## Publications

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Product cited in: Sun, Bristol, Iwahori, Hagemeyer, Meng, Barlow, Fingerroth, Tarakanova, Kalejta, Kenney: "Hsp90 inhibitor 17-DMAG decreases expression of conserved herpesvirus protein kinases and reduces virus production in Epstein-Barr virus-infected cells." in: **Journal of virology**, Vol. 87, Issue 18, pp. 10126-38, (2013) ([PubMed](#)).

Meng, Hagemeyer, Fingerroth, Gershburg, Pagano, Kenney: "The Epstein-Barr virus (EBV)-encoded protein kinase, EBV-PK, but not the thymidine kinase (EBV-TK), is required for ganciclovir and acyclovir inhibition of lytic viral production." in: **Journal of virology**, Vol. 84, Issue 9, pp. 4534-42, (2010) ([PubMed](#)).

Meng, Hagemeyer, Kuny, Kalejta, Kenney: "Simian virus 40 T/t antigens and lamin A/C small interfering RNA rescue the phenotype of an Epstein-Barr virus protein kinase (BGLF4) mutant." in: **Journal of virology**, Vol. 84, Issue 9, pp. 4524-33, (2010) ([PubMed](#)).