

## Streptavidin-HRP Conjugate

<u>Catalog No.</u>	<u>Size</u>	<u>Concentration</u>
AR100017	1 ml	1 mg/ml

### Description

Streptavidin-HRP conjugate is used in ELISA, immunohistochemistry, Western Blot, and other biochemical procedures to detect the presence of biotin. Streptavidin is a tetrameric 55 kDa biotin-binding protein isolated from *Streptomyces avidini*. Streptavidin is superior to avidin because it does not contain carbohydrate like avidin and has no net charge at neutral pH. Horseradish Peroxidase (HRP) used for conjugation is a 44 kDa glycoprotein isolated from horseradish roots. One mg of streptavidin is conjugated with HRP in an equimolar ratio. Unconjugated streptavidin is removed. The conjugate is supplied at 1 mg/ml in 10 mM Phosphate buffer, 200 mM NaCl, pH 7.5, 1% BSA and 0.05% ProClin™ 300.

### Appearance

Orange-brown solution.

### Form

Liquid concentrate.

### Storage

Store at 4°C.

### Stability

Stable for a minimum of one year from date of receipt when stored at 4°C.

### Use and Handling

For ELISA, dilute in Assay Buffer to a final concentration of 20 ng/ml- 2 µg/ml.

For Immunohistochemistry, dilute 1:200 to 1:1,000.

For chemiluminescent Western blot, dilute 1:10,000-1:100,000.

For chromogenic Western blot, dilute 1:500-1:1000.

The optimal dilution should be determined by the individual investigator.

**Caution: Peroxidase is inhibited by sodium azide. Do not dilute conjugate in buffer containing azide.**

### Resources

ELISA and Luminex assay protocols are available in OriGene's ELISA Development Guide. ([www.origene.com/assets/documents/ELISA\\_guide.pdf](http://www.origene.com/assets/documents/ELISA_guide.pdf)).

<b><u>Related Products</u></b>	<b><u>Amount</u></b>	<b><u>Catalog No.</u></b>
ELISA Wash Buffer (10X)	100 ml	AR100010
ELISA Wash Buffer (10X)	1 Liter	AR100011
Assay Buffer A	100 ml	AR100012
Assay Buffer B	100 ml	AR100013
Assay Buffer C	100 ml	AR100014
Assay Buffer D	100 ml	AR100015
Assay Diluent	100 ml	AR100016
TMB Substrate, soluble, 1-part	100 ml	AR100018
TMB Substrate, soluble, 1-part	1 Liter	AR100019
Stop Solution	100 ml	AR100020
Stop Solution	1 Liter	AR100021

See OriGene's website for a full list of ELISA and Luminex-validated antibody pairs. ([www.origene.com/Antibody/ELISA](http://www.origene.com/Antibody/ELISA)).

**For research use only. Not for use in diagnostic procedures.**