

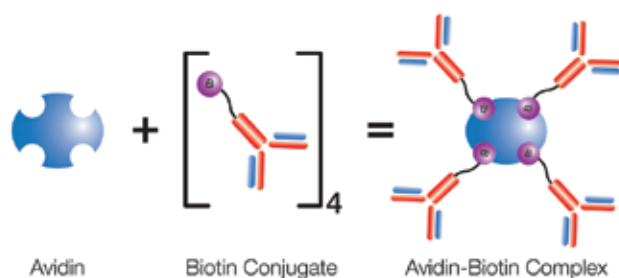
Avidin Reagents For Research Use & IVD

Streptavidin is a tetrameric bacterial protein isolated from the *bacterium Streptomyces avidinii*. Like avidin from egg whites, streptavidin can bind four molecules of biotin and has one of the highest noncovalent affinity constants known in nature ($K_d \sim 10^{-15}$). This protein is composed of four identical subunits with a molecular weight of approximately 53,000 daltons. They are also free of carbohydrate side chains and has a near neutral isoelectric point of 6.5.

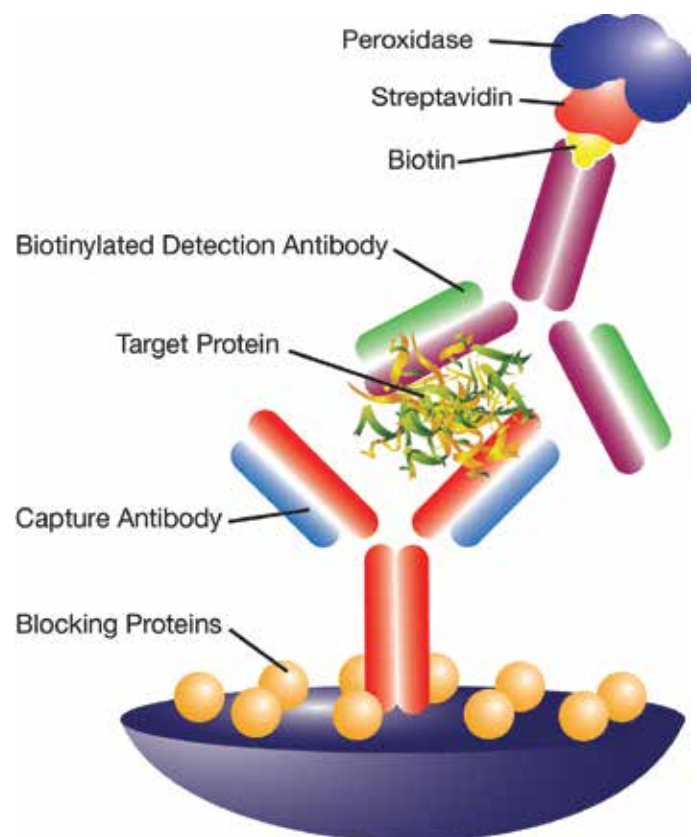
Streptavidin has a wide variety of applications such as use as a second step reagent with biotin labeled primary antibodies or in the formation of class I and II MHC tetramers for detection of antigen specific T-cells.

Applications for which the avidin-biotin interaction is used include:

- ELISA
- Tetramer Staining
- Immunohistochemistry (IHC)
- Immunofluorescence Microscopy
- Western Blotting
- Immunoprecipitation (IP)
- Signal Amplification using Streptavidin
- Microarrays
- *In situ* hybridization
- *In vitro* Diagnostics (IVD)



Above: Diagram of signal amplification by avidin-biotin complex formation with an antibody. UltraAvidin or streptavidin Protein can bind four (4) moles of biotin per mole of protein, and it shows extremely high affinity normally conjugated to an enzyme, antibody or target protein to form an avidin-biotin complex.



Above: Use of SA-Biotin interaction in a Sandwich ELISA assay.

Streptavidin Reagents

For the latest product updates and product information, visit: Leinco.com

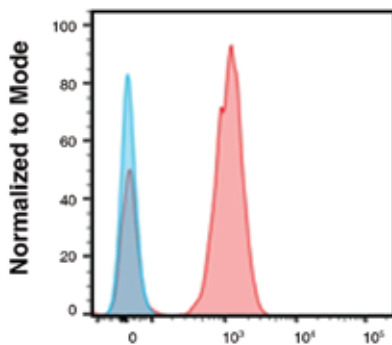
Description	Pkg. Sizes	Product Number
Alkaline Phosphatase (Alk Phos)	0.5 mg, 1.0 mg	S208
APC	0.5 mg	S571
DyLight® 405	1.0 mg	S612
DyLight® 488	1.0 mg	S613
DyLight® 550	1.0 mg	S614
DyLight® 594	1.0 mg	S615
DyLight® 650	1.0 mg	S616
FITC	1.0 mg	S205
Horseradish Peroxidase (HRP)	1.0 mg, 2.5 mg	S207
PerCP	0.5 mg	S617
R-PE Premium Grade	0.1 mg, 0.5 mg	S211
Streptavidin Purified	5.0 mg, 10 mg, 100 mg	S203
Cy2	1.0 mg	S215
Cy3	1.0 mg	S213
Cy5	1.0 mg	S214

UltraAvidin™ Reagents

For the latest product updates and product information, visit: Leinco.com

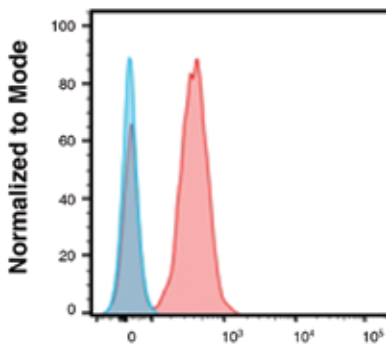
Description	Pkg. Sizes	Product Number
UltraAvidin™ Purified	5.0 mg, 10 mg, 100 mg	A110
R-PE	0.25 mg	A104
Alkaline Phosphatase (Alk Phos)	1.0 mg, 2.0 mg	A108
APC Premium Grade	0.25 mg	A107
DyLight® 405	0.5 mg, 1.0 mg	A429
DyLight® 488	0.5 mg, 1.0 mg	A425
DyLight® 550	0.5 mg, 1.0 mg	A426
DyLight® 594	0.5 mg, 1.0 mg	A427
DyLight® 650	0.5 mg, 1.0 mg	A428
FITC	0.5 mg, 1.0 mg	A105
Horseradish Peroxidase (HRP)	0.5 mg, 2.0 mg	A106

Vist our website for more formats and part numbers



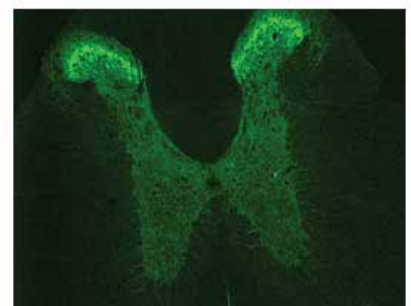
Streptavidin - APC

100µl of whole blood was stained with biotinylated CD3 followed SAV-APC (red histogram) or SAV-APC alone. Analysis was gated on lymphocytes.



Streptavidin - FITC

100µl of whole blood was stained with biotinylated CD3 followed by FITC (red histogram) or SAV-FITC alone. Analysis was gated on lymphocytes.



UltraAvidin™ - DyLight® 488

Mouse spinal cord section stained with Anti-Gad67-Biotin followed by UltraAvidin™ - DyLight® 488