

Streptavidin Conjugates

Signal Amplifier in Scientific Research

Preamble

Streptavidin conjugate is a tool that uses the binding properties of high affinity between streptavidin (SA) and Biotin to pair streptavidin with different marker molecules or detection reagents. Such couplings are widely used in biomedical research and diagnostics.

Streptavidin is a tetramer bacterial protein isolated from *Streptomyces virescens* with 4 strong biotin-binding sites and an extremely high affinity for biotin, one of the strongest non-covalent interactions in nature. Biotin is a popular choice for protein and cell labeling due to its small size and ease of labeling various reactive groups.

Two major advantages:

1. Improve detection sensitivity and amplify weak signals.
2. Allow a variety of tag coupling, with versatility.

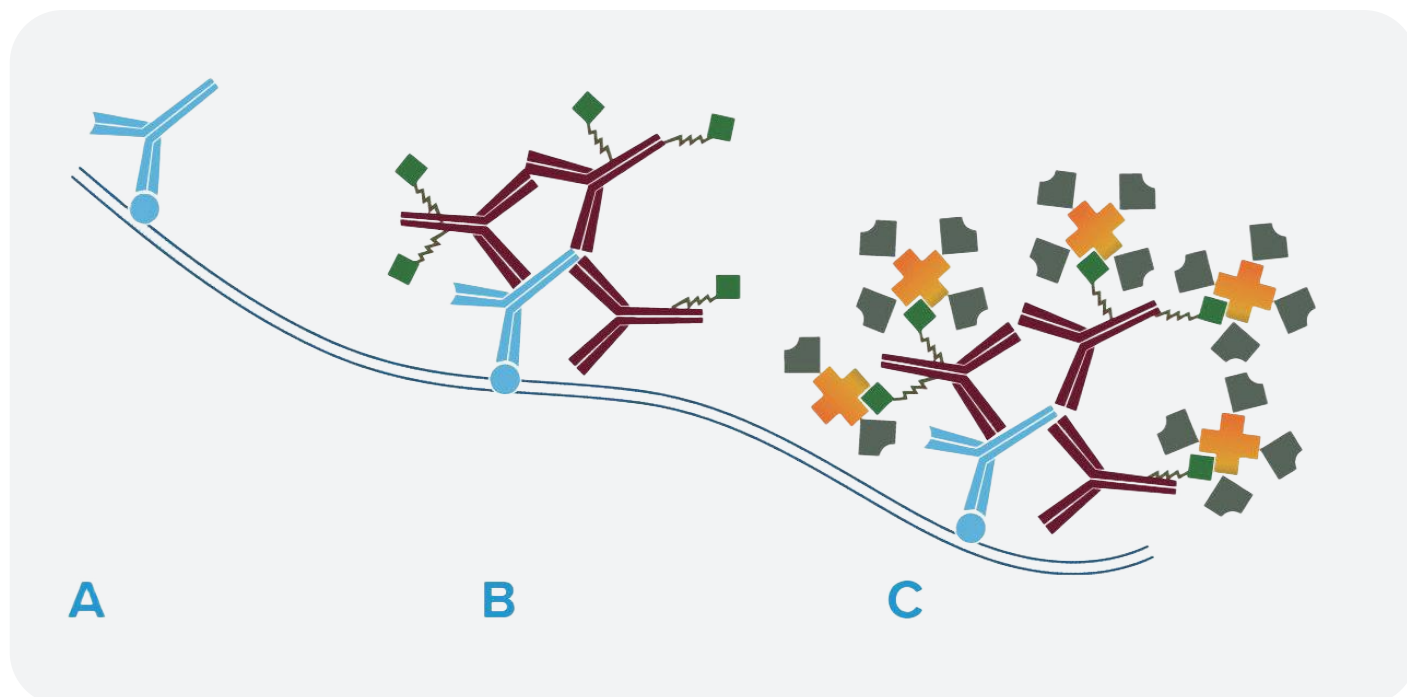
Applications:

1. Enzyme-linked Immunosorbent Assay
2. Immunohistochemistry
3. Flow Cytometry
4. Western Blot
5. Cell Surface Labeling
6. Affinity Purification



Enzyme-labeled Streptavidin Conjugates

Enzyme-labeled streptavidin conjugates act as signal amplification by binding to the primary or secondary antibody labeled with biotin and catalyzing the corresponding substrate with the carried enzyme. It is commonly used in enzyme-linked immunosorbent assay (ELISA), immunohistochemistry, western blotting and in situ hybridization. Horseradish peroxidase (HRP) and alkaline phosphatase (AP) are widely used as reporter genes because of their high turnover, stability, easy binding and low cost.



The binding process of HRP- Streptavidin conjugate and biotin-labeled secondary antibody

Cat.No	Product Name	Product Size
E498330	Enhanced Streptavidin-HRP	1mg
np156148	SA-HRP	0.1ml; 1ml
P638970	Poly-HRP Streptavidin	250µl
np169050	Recombinant Streptavidin Protein (alkaline phosphatase)	10µg; 100µg; 1mg
S292622	Streptavidin-alkaline phosphatase	1ml
S639038	Streptavidin, β-galactosidase conjugate	1mg

Fluorescent Streptavidin Conjugates

Fluorescent Streptavidin Conjugates are widely used in fluorescence imaging to detect biotinylated antibodies, ligands, and DNA probes for in situ hybridization techniques, immunohistochemistry, and multicolor flow cytometry. We offer a portfolio of streptavidin labeled with eFluor dyes, Alexa Fluor dyes, phycobilin, Qdot™ nanocrystals and tandem dyes.

Cat.No	Product Name	Product Size
Fluorescein Conjugates		
S293782	Cy5-conjugated Streptavidin	1mg
R293834	Streptavidin, RRX Conjugated	1mg
rp155876	Streptavidin protein (FITC)	0.1ml; 0.5ml; 1ml
rp181942	Recombinant Streptavidin Protein (AF405)	10µg; 100µg; 1mg
rp181946	Recombinant Streptavidin Protein (AF647)	10µg; 100µg; 1mg
rp169047	Recombinant Streptavidin Protein (Cy5)	100µg; 1mg
rp169049	Recombinant Streptavidin Protein (TRITC)	100µg; 1mg
A638765	Aladdin™ Streptavidin eFluor™ 450 Conjugate	100µg
A638767	Aladdin™ Streptavidin eFluor™ 570 Conjugate	25µg; 100µg
A638770	Aladdin™ Streptavidin eFluor™ 710 Conjugate	25µg; 100µg
S639009	Streptavidin, Alexa Fluor™ 430 conjugate	1mg
S639014	Streptavidin, Alexa Fluor™ 555 Conjugate	1mg
S639017	Streptavidin, Alexa Fluor™ 594 Conjugate	1mg
S639022	Streptavidin, Alexa Fluor™ 647 Conjugate	1mg
S639025	Streptavidin, Alexa Fluor™ 700 conjugate	1mg
S639026	Streptavidin, Alexa Fluor™ 750 conjugate	1mg
S639028	Streptavidin, Alexa Fluor™ 790 Conjugate	1mg
S639031	Streptavidin, fluorescein conjugate	1mg
S639032	Streptavidin, Pacific Blue™ conjugate	1mg
S639033	Streptavidin, Pacific Orange™ conjugate	1mg
S639034	Streptavidin, Rhodamine Red™-X conjugate	1mg
S639037	Streptavidin, Texas Red™ conjugate	1mg
A638802	Alexa Fluor™ 488 Streptavidin, 10 nm colloidal gold conjugate	500µl
A638803	Alexa Fluor™ 488 Streptavidin, 5 nm colloidal gold conjugate	500µl
S639029	Streptavidin, Allophycocyanin Conjugate, premium grade	250µl

Fluorescent Streptavidin Conjugates

Cat.No	Product Name	Product Size
Fluorescein Conjugates		
A638776	Aladdin™ Streptavidin Super Bright 436 Conjugate	100µg
A638777	Aladdin™ Streptavidin Super Bright 600 Conjugate	100µg
A638778	Aladdin™ Streptavidin Super Bright 645 Conjugate	100µg
A638779	Aladdin™ Streptavidin Super Bright 702 Conjugate	100µg
A638780	Aladdin™ Streptavidin Super Bright 780 Conjugate	100µg
Qdot™ Nanocrystal Conjugates		
Q638972	Qdot™ 525 Streptavidin Conjugate	50µl; 200µl
Q638975	Qdot™ 565 Streptavidin Conjugate	50µl; 200µl
Q638976	Qdot™ 585 Streptavidin Conjugate	50µl; 200µl
Q638978	Qdot™ 605 Streptavidin Conjugate	50µl; 200µl
Q638980	Qdot™ 625 Streptavidin Conjugate	50µl; 200µl
Q638983	Qdot™ 655 Streptavidin Conjugate	50µl; 200µl
Q638987	Qdot™ 705 Streptavidin Conjugate	50µl; 200µl
Q638988	Qdot™ 800 Streptavidin Conjugate	50µl; 200µl
APC, PE, PerCP and Tandem Conjugates of Streptavidin		
rp169048	Recombinant Streptavidin Protein (APC)	10µl; 100µl; 1ml
rp169052	Recombinant Streptavidin protein (PerCP)	100µl; 1ml
S639003	Streptavidin,(APC-Alexa Fluor™ 750)	1ml
A638764	Aladdin™ Streptavidin APC-eFluor™ 780 Conjugate	100µg
A638775	Aladdin™ Streptavidin PerCP-eFluor™ 710 Conjugate	25µg; 100µg
A638771	Aladdin™ Streptavidin PE-Cyanine5 Conjugate	100µg
A638772	Aladdin™ Streptavidin PE-Cyanine7 Conjugate	100µg
A638773	Aladdin™ Streptavidin PE-eFluor™ 610 Conjugate	100µg
S639018	Streptavidin, Alexa Fluor™ 610—R-Phycoerythrin Conjugate	100µl
S639023	Streptavidin, Alexa Fluor™ 647—R-Phycoerythrin Conjugate	100µl
S639027	Streptavidin, Alexa Fluor™ 750—Allophycocyanin Conjugate	100µl
S639035	Streptavidin, R-Phycoerythrin Conjugate(SAPE)	1ml
S639036	Streptavidin, R-Phycoerythrin Conjugate(SAPE) - premium grade	1ml

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