OriGene Technologies Inc.

9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-858-888-7900
Fax: +1-858-888-7904
US-info@acris-antibodies.com

OriGene EU

Acris Antibodies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info@acris-antibodies.com

S. avidinii Streptavidin-NC - Purified

Catalog No.: PA1340X

Quantity: 0.1 mg

Concentration: 3 mg/ml

Background: A 60kD extracellular protein of Streptomyces avidinii with four high-affinity biotin binding sites. Unlike AVIDIN, streptavidin has a near neutral isoelectric point and is free of carbohydrate side chains.

Uniprot ID: P22629

NCBI: 1895

Species: S. avidinii

Source: E. coli

Format: **Purity:** ›90% Proprietary chromatographic techniques, sterile filtered.
›90% pure as determined by
a) Analysis by RP-HPLC
b) Anion-exchange FPLC
c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel
Buffer System: 0.5 mg/ml glycerol
Endotoxin Level: Less than 0.1 ng/µg (IEU/µg) of Recombinant Streptavidin.
Dimers: Less than 1% as determined by silver-stained SDS-PAGE gel analysis.

Applications: Calibrators and controls for immunoassays and western blot standards.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Description: Recombinant Streptavidin-NC is a single, non-glycosylated, polypeptide chain.
Recombinant Streptavidin-NC not only binds to nitrocellulose membrane readily but also preserves the full biotin binding ability.
Molecular weight: 24 kDa 24 kDa

Storage: Store the protein at 2 - 8 °C up to one month or in aliquots at -20 °C for longer. Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

1. Chen HM, Lin CW. Hydrogel-coated streptavidin piezoelectric biosensors and applications to selective detection of Strep-tag displaying cells. Biotechnol Prog. 2007 May-Jun;23(3):741-8. Epub 2007 May 1. PubMed PMID: 17469846.
2. Narain R, Gonzales M, Hoffman AS, Stayton PS, Krishnan KM. Synthesis of monodisperse biotinylated p(NIPAAm)-coated iron oxide magnetic nanoparticles and their bioconjugation to streptavidin. Langmuir. 2007 May 22;23(11):6299-304. Epub 2007 Apr 24. PubMed PMID: 17451262.
3. Colonne M, Chen Y, Wu K, Freiberg S, Giasson S, Zhu XX. Binding of streptavidin with

biotinylated thermosensitive nanospheres based on poly(N,N-diethylacrylamide-co-2-hydroxyethyl methacrylate). Bioconjug Chem. 2007 May-Jun;18(3):999-1003. Epub 2007 Apr 13. PubMed PMID: 17429939.
4. Biotinylation of TiO(2) nanoparticles and their conjugation with streptavidin. Langmuir 2007 May 8;2310):5630-7
5. Perbandt M, Bruns O, Vallazza M, Lamla T, Betzel Ch, Erdmann VA. High resolution structure of streptavidin in complex with a novel high affinity peptide tag mimicking the biotin binding motif. Proteins. 2007 Jun 1;67(4):1147-53. PubMed PMID: 17377987.
6. Housni A, Cai H, Liu S, Pun SH, Narain R. Facile preparation of glyconanoparticles and their bioconjugation to streptavidin. Langmuir. 2007 Apr 24;23(9):5056-61. Epub 2007 Mar 22. PubMed PMID: 17375947.