

Purified Streptavidin

Catalog# / Size	405150 / 1 mg 405151 / 10 mg
Regulatory Status	RUO
Other Names	Streptavidin-PURE, SAV-PU, SAV
Description	Streptavidin is a 52.8 kD tetrameric protein obtained from <i>Streptomyces avidinii</i> . It binds to biotin with a very high affinity and is one of the strongest interactions in nature with a dissociation constant of 10^{-14} mol/L. It is used in a wide range of applications including ELISA, flow cytometry, molecular biology, and bionanotechnology.

Product Details

Formulation	Each vial contains Streptavidin lyophilized in sodium chloride buffer.
Preparation	Reconstitute the content of the vial in distilled water to the desired concentration.
Storage & Handling	For long-term storage, store the lyophilized streptavidin at -20°C or -70°C. After reconstitution, store the solution between 2°C and 8°C for up to 2 weeks, or store in aliquots at -20°C for up to 6 months.
Application	FC - Quality tested ELISA Capture, ELISA Detection, ICC, IHC-F, IHC-P, IP, WB - Reported in the literature, not verified in house
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.06 μ g per million cells in 100 μ L volume. It is recommended that the reagent be titrated for optimal performance for each application.
Product Citations	<ol style="list-style-type: none">1. Rajagopalan A, <i>et al.</i> 2021. Cell Rep Methods. 1: PubMed2. Urlaub D, <i>et al.</i> 2020. Curr Protoc Immunol. 131:e111. PubMed3. Ridge LA, <i>et al.</i> 2021. Cell Rep. 36:109610. PubMed

Antigen Details

Structure	52.8 kD tetrameric protein
Distribution	Streptavidin binds to biotin with high affinity
Ligand/Receptor	Biotin
Antigen References	<ol style="list-style-type: none">1. Dundas CM, <i>et al.</i> 2013. <i>Appl. Microbiol. Biotechnol.</i> 97:9343.2. Zhao X, <i>et al.</i> 2013. <i>J. Anal. Methods Chem.</i> 2013:581093.3. Kaplan DL, <i>et al.</i> 1999. <i>Biomol. Eng.</i> 16:135.4. Wilbur DS, <i>et al.</i> 1999. <i>Biomol. Eng.</i> 16:113.5. Sano T, <i>et al.</i> 1998. <i>J. Chromatogr. B. Biomed. Sci. Appl.</i> 715:85.
Gene ID	NA

Related Protocols

[Active Protocols: Sandwich ELISA - Video](#)

[Cell Surface Flow Cytometry Staining Protocol](#)

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