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Datasheet for S000-56

Streptavidin ATTO 647N Conjugated

Overview

Description:	Streptavidin ATTO 647N Conjugated - S000-56
Item No.:	S000-56
Size:	500 µg
Applications:	Dot Blot, IF

Product Details

Background:	STREPTAVIDIN ATTO 647N is designed for STED microscopy, FRET, immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent western blotting. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms.
Synonyms:	SA, S avidin, streptococcus avidin, streptavidin AT647N, ATTO 647N, ATTO-TEC 647N, STREPTAVIDIN ATTO 647N Conjugated
Conjugate:	ATTO 647N
F/P Ratio:	4.66

Target Details

Purity/Specificity:	STREPTAVIDIN ATTO 647N was prepared from chromatographically purified Streptavidin. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Streptavidin. No reaction was observed against anti-Avidin.

Application Details

Tested Applications:	Dot Blot
Suggested Applications:	IF (Based on references)
Application Note:	Streptavidin ATTO 647N has been tested by dot blot. The emission spectra for this ATTO conjugate matches the principle output wavelengths of most common fluorescence instrumentation.

Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FLISA:	>1:20,000
IF:	>1:5,000
WB:	>1:10,000

Formulation

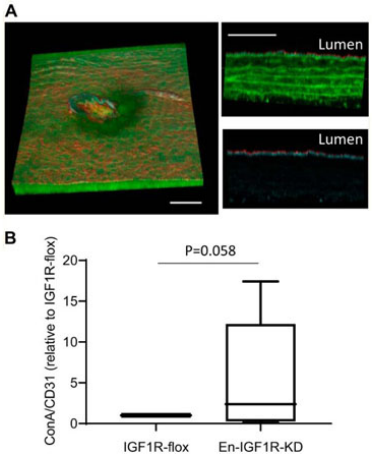
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	500 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images

Bottle
Streptavidin ATTO 647N Conjugated



Immunofluorescence Microscopy
Endothelial IGF1R deficiency caused a strong trend of elevation of endothelial permeability in Apoe-deficient mice. Seven-week-old animals were fed on a high-fat diet for 4 wk and then perfused with biotin-labeled concanavalin A to assess solute permeability. A: after perfused fixation by 4% paraformaldehyde, tissues were dissected and stained with phalloidin (F-actin, green), anti-CD31 antibody [endothelial cells (ECs), red], and avidin-Atto 645 (concanavalin A, cyan). Left: 2-photon image showing a three-dimensional volume (582 µm × 536 µm lateral × 108 µm axial). Scale bar = 100 µm. Top, right: axial view of the aorta wall, where red = CD31-positive ECs, cyan = concanavalin A, and green = phalloidin, and autofluorescence of elastic laminar. Scale bar = 50 µm. Bottom, right: same view with top, right, but only showing CD31-positive ECs (red) and concanavalin A (cyan) to represent spatial localization of concanavalin A-positive part within the aorta wall. B: concanavalin A-positive stain was quantified and normalized to CD31-positive volume in the tissues. Single-sample t test was applied to evaluate statistical difference; n = 9 in each group. Streptavidin-Atto 647 (No. S000-56). Fig. 7. PMID: 32795184.

References

- Higashi Y et al. Endothelial deficiency of insulin-like growth factor-1 receptor reduces endothelial barrier function and promotes atherosclerosis in Apoe-deficient mice. *Am J Physiol Heart Circ Physiol.* (2020)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.