Datasheet for ABIN1045082

Streptavidin Protein (Atto 647N)

1 Image

Go to Product page

Overview

Quantity:	500 µg
Target:	Streptavidin
Origin:	Streptomyces avidinii
Host:	Please inquire
Purification tag / Conjugate:	This Streptavidin protein is labelled with Atto 647N.

Product Details

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.

Target Details

Target:	Streptavidin
Abstract:	Streptavidin Products
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: AT647N, ATTO 647N, ATTO-TEC 647N, STREPTAVIDIN ATTO 647N Conjugated

Application Details

Application Notes:	The emission spectra for this ATTO conjugate matches the principle output wavelengths of

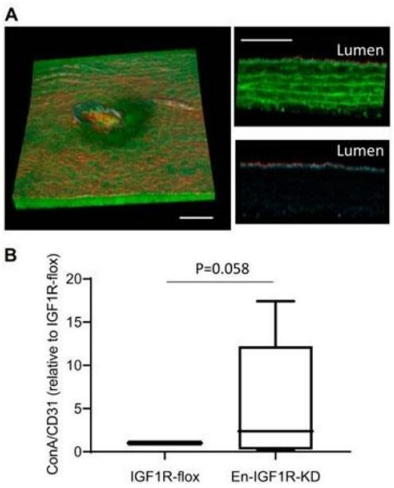
Application Details

	most common fluorescence instrumentation.
Comment:	The emission spectra for this ATTO conjugate matches the principle output wavelengths of most common fluorescence instrumentation.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Buffer: Restore with deionized water (or equivalent), Reconstitution Volume: 500 µL
Concentration:	1.0 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Expiry Date:	12 months

Images



Fluorescence Microscopy

Image 1. 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 µmx536 µm lateralx108 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.

