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Datasheet for S000-43

Streptavidin DyLight™ 649 Conjugated

Overview

Description:	Streptavidin DyLight™ 649 Conjugated - S000-43
Item No.:	S000-43
Size:	100 µg
Applications:	Dot Blot, IF, WB

Product Details

Background:	Streptavidin is isolated from bacteria, Streptomyces avidinii, and has an exceptionally high binding affinity for B7 (biotin). Rockland offers streptavidin in unconjugated and conjugated forms for common immunoassays including ELISA, western blotting, immunohistochemistry. Streptavidin is a tetrameric protein capable of binding 4 biotin groups to each molecule of streptavidin. While streptavidin has identical binding properties as avidin, it lacks the glycoprotein portion of the molecule and therefore shows less non-specific binding. Streptavidin is a slightly smaller molecule with a molecular weight of approximately 53.6 kDa. The sequence of avidin only shows 30% homology with streptavidin, and anti-avidin and anti-streptavidin antibodies are not immunologically cross reactive. Rockland conjugates a broad group of secondary antibodies to many of the classic fluorescent markers including fluorescein, rhodamine, Texas Red, CyDyes™ and Phycoerythrin (RPE). Rockland also produces many next generation fluorochrome dyes designed for detection of primary antibodies in multiplex, multi-color analysis. Next generation fluorochrome conjugates (DyLight™ dyes) offer superior absorption (high extinction coefficient), high fluorescence quantum yield, and superior high photostability.
Synonyms:	SA, S avidin, streptococcus avidin, streptavidin DyLight™ 649 Conjugated
Conjugate:	DyLight™ 649
F/P Ratio:	5.3
Specific Activity:	5.3

Target Details

Purity/Specificity:	This product was prepared from chromatographically purified Streptavidin. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Streptavidin.

Application Details

Tested Applications:	Dot Blot
Suggested Applications:	IF, WB (Based on references)
Application Note:	Streptavidin DyLight™649 has been tested by dot blot and is designed for 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. The emission spectra for this DyLight™ conjugate match 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

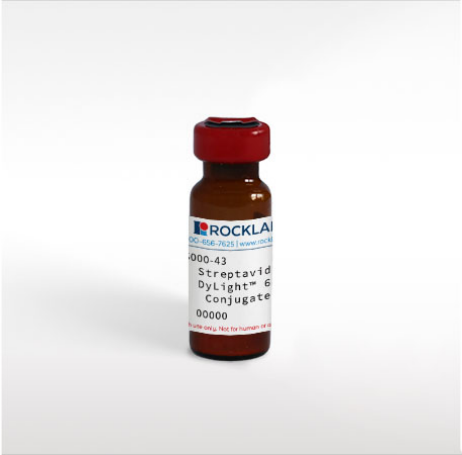
Formulation

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:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

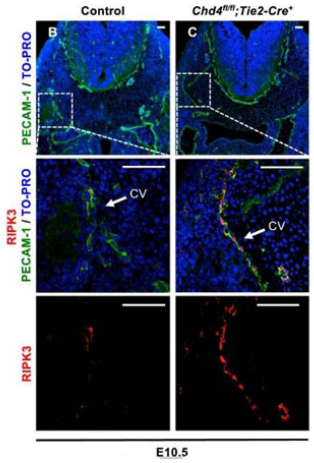
Shipping & Handling

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 DyLight™ 649 Conjugated



Immunofluorescence Microscopy
RIPK3 is upregulated in Chd4fl/fl;Tie2-Cre+ embryonic endothelial cells and contributes to vascular rupture. b, c Cross sections of E10.5 littermate control and Chd4fl/fl;Tie2-Cre+ embryos containing the cardinal vein (CV) were immunostained for the endothelial cell marker PECAM-1 (green) and for RIPK3 (red) and were counterstained with the nucleic acid-binding dye TO-PRO®-3 (TO-PRO, blue). Images were generated by confocal microscopy. Boxed regions in the top panels are shown magnified in the middle and bottom panels (merged and RIPK3-only channels, respectively). Images are the representative of immunostaining from three separate control and mutant littermate embryos. Secondary antibodies used were FITC-donkey-anti-goat IgG and Streptavidin-649 (p/n S000-43). Scale bars: 50 µm. Fig 2. PMID: 31235857.

References

- Tanida I et al. Application of immuno- and affinity labeling with fluorescent dyes to in-resin CLEM of Epon-embedded cells. *Heliyon.* (2023)
- Colijn S et al. The NuRD chromatin-remodeling complex enzyme CHD4 prevents hypoxia-induced endothelial Ripk3 transcription and murine embryonic vascular rupture. *Cell Death Differ.* (2020)

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