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Datasheet for S000-45

Streptavidin DyLight™ 800 Conjugated

Overview

Description:	Streptavidin DyLight™ 800 Conjugated - S000-45
Item No.:	S000-45
Size:	100 µg
Applications:	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™ 800 Conjugated
Conjugate:	DyLight™ 800
F/P Ratio:	4.0

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

Suggested Applications:	WB (Based on references)
Application Note:	This product 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

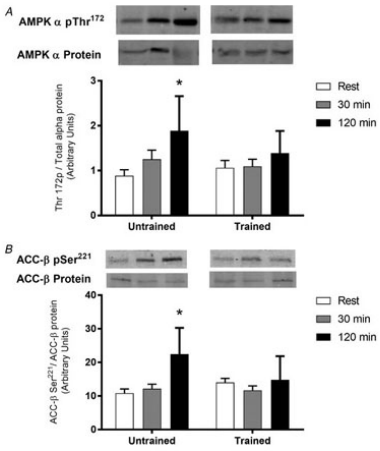
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 µL
Reconstitution 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™ 800 Conjugated



Western Blot
Skeletal muscle AMPK αThr172 and ACC-βSer221 phosphorylation. Representative immunoblot of AMPK αThr172 phosphorylation (A) measured using a phosphospecific antibody for AMPK αThr172, normalized to total AMPK α protein; and ACC-βSer221 phosphorylation (B) measured using a phosphospecific antibody specific to ACC-βSer221, normalized to total ACC-β. Muscle samples were obtained before exercise (rest), after 30 min and immediately following 120 min of steady-state exercise at ~65% V˙O2peak in untrained and exercise trained participants. Samples of pAMPK or AMPK for each participant were run on the same western blot. The representative western blots for pAMPK or AMPK shown are from the same membrane but are rearranged for clarity. 800-labelled streptavidin (p/n S000-45). Data are the mean ± SD, n = 11 untrained, 7 trained. *Significantly different from corresponding trained value ($P < 0.05$). §Main effect for time ($P < 0.05$). Fig 5. PMID: 32588910.

References

- Sun H et al. IL-2 can signal via chemokine receptors to promote regulatory T cells' suppressive function. *Cell Rep.* (2023)
- McConell GK et al. Skeletal muscle AMPK is not activated during 2 h of moderate intensity exercise at~ 65% in endurance trained men. *J Physiol.* (2020)
- Ross, FA et al. Mechanisms of Paradoxical Activation of AMPK by the Kinase Inhibitors SU6656 and Sorafenib. *Cell Chemical Biology* (2017)

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