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Datasheet for 200-406-095

Streptavidin Antibody Biotin Conjugated

Overview

Description:	Anti-Streptavidin (RABBIT) Antibody Biotin Conjugated - 200-406-095
Item No.:	200-406-095
Size:	100 µg
Applications:	Dot Blot, FISH, IF, Multiplex, Other
Reactivity:	Streptavidin
Host Species:	Rabbit

Product Details

Background:	Anti-Streptavidin Antibody is Biotin Conjugated and detects streptavidin. Biotin is widely used throughout the biotechnology industry to conjugate proteins for biochemical assays. Biotin's small size typically does not affect the biological activity of protein upon biotinylation. Streptavidin and avidin bind biotin with high affinity (Kd of 10−14 mol/l to 10−15 mol/l) and thus biotinylated proteins of interest can be enriched from a sample due to this highly stable interaction. Biotin conjugated anti-streptavidins are used as an amplifying reagent in immunohistochemistry, microarray assays, ELISAs, blots, and other applications. This antibody reagent can bind to streptavidin through the antibody F(ab) or can be bound by streptavidin through the high affinity biotin-streptavidin interaction.
Synonyms:	rabbit anti-Streptavidin Antibody biotin Conjugation, biotin conjugated rabbit anti-Streptavidin antibody, Anti-Streptavidin BAC Antibody
Host Species:	Rabbit
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Streptavidin
Immunogen Type:	Native Protein
Immunogen:	Streptavidin (Streptomyces avidinii)

Purity/Specificity:	Streptavidin Antibody Biotin Conjugated was prepared from monospecific antiserum by delipidation, defibrination, salt fractionation and ion exchange chromatography. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-biotin, anti-Rabbit Serum and Streptavidin. No reaction was observed against Avidin.

Application Details

Tested Applications:	Dot Blot
Suggested Applications:	FISH, IF, Multiplex, Other (Based on references)
Application Note:	Biotin Conjugated Anti-Streptavidin Antibody has been tested by dot blot and is suitable to be assayed by ELISA for the detection of streptavidin in a standard ELISA using Peroxidase as a reporter. A working dilution of 1:10,000 to 1:400,000 of the reconstitution concentration is suggested for this product. Optimization of the concentration in immunoassays should be performed by the researcher.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:2,000-1:20,000

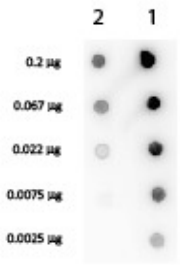
Formulation

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)

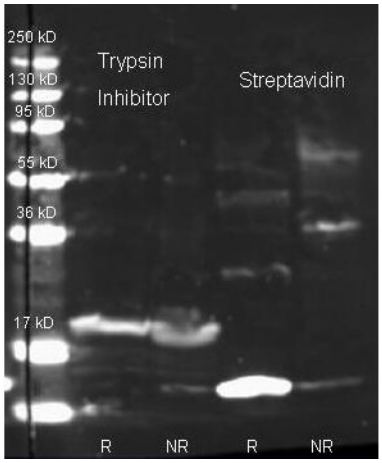
Shipping & Handling

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



Dot Blot
Dot Blot of Rabbit anti-Streptavidin Biotin Conjugated. Antigen: Lane 1 - Biotin conjugated Streptavidin Antibody. Lane 2 - Streptavidin Antibody. Load: 3-fold serial dilution starting at 200 ng. Secondary antibody: HRP Streptavidin at 1:40,000 for 60 min at RT. Block: 1% BSA-TTBS 30 min at RT.



Western Blot
Western Blot of Rabbit Anti-Trypsin Inhibitor Antibody and Rabbit Anti-Streptavidin Antibody. Lane 1: Trypsin Inhibitor reduced. Lane 2: Trypsin Inhibitor non-reduced. Lane 3: Streptavidin reduced. Lane 4: Streptavidin non-reduced. Load: ~1ug per lane. Primary antibody: Primary antibody at 1:1000 for overnight at 4°C. Secondary antibody: Dylight 649 conjugated Donkey anti rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: MB-070 overnight at 4°C. Predicted/Observed size: 18.8 kDa, ~15 kDa for Streptavidin, 24 kDa, ~20 kDa for Trypsin Inhibitor. Other band(s): none.

References

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- Bauwens S et al. The Telomeric Protein TRF2 Regulates Replication Origin Activity within Pericentromeric. *Life (Basel).* (2021)
- Naim V et al. ERCC1 and MUS81–EME1 promote sister chromatid separation by processing late replication intermediates at common fragile sites during mitosis. *Nat Cell Biol.* (2013)

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