

**Datasheet for 200-4297S****Avidin Antibody Fluorescein Conjugated****Overview**

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| <b>Description:</b>  | Anti-AVIDIN (RABBIT) Antibody Fluorescein Conjugated - 200-4297S |
| <b>Item No.:</b>     | 200-4297S                                                        |
| <b>Size:</b>         | 25 µL                                                            |
| <b>Applications:</b> | Dot Blot                                                         |
| <b>Reactivity:</b>   | Avidin                                                           |
| <b>Host Species:</b> | Rabbit                                                           |

**Product Details**

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| <b>Background:</b>   | Avidin is a glycoprotein with a molecular weight of approximately 62.4 kDa. Avidin is a biotin binding protein that shows high sequence homology in birds, reptiles and amphibians. Hen egg white avidin is a tetrameric protein composed of four identical subunits, each with the ability to bind biotin with high affinity and specificity ( $K_d \sim 10^{15}$ M). In biotechnology, the functional consequence of tetrameric biotin binding is signal amplification. Biotin-avidin bridging is a great way to increase signal strength while maintaining specificity. The sequence of avidin only shows 30% homology with streptavidin, and anti-avidin and anti-streptavidin antibodies are not immunologically cross reactive. |
| <b>Synonyms:</b>     | rabbit anti-Avidin Antibody fluorescein Conjugation, FITC conjugated rabbit anti-Avidin antibody, Avidin fluorescein, Anti-Avidin FITC Antibody, egg white                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Conjugate:</b>    | Fluorescein (FITC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>F/P Ratio:</b>    | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**Target Details**

|                        |                |
|------------------------|----------------|
| <b>Reactivity:</b>     | Avidin         |
| <b>Immunogen Type:</b> | Native Protein |

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| <b>Immunogen:</b>          | Avidin (Hen Egg White)                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purity/Specificity:</b> | Anti-Avidin Antibody Fluorescein Conjugated is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-fluorescein, anti-Rabbit Serum and Avidin. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P02701</a></li><li>• <a href="#">200-4297 SDS</a></li></ul>                                                                                                                                                                                                                                                                                     |

## Application Details

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| <b>Tested Applications:</b> | Dot Blot                                                                                                                                                                                                                                                                                                                      |
| <b>Application Note:</b>    | Rabbit Anti-Avidin Fluorescein conjugate 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. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                               |
| <b>FC:</b>                  | User Optimized                                                                                                                                                                                                                                                                                                                |
| <b>FLISA:</b>               | >1:1,000                                                                                                                                                                                                                                                                                                                      |
| <b>IF:</b>                  | User Optimized                                                                                                                                                                                                                                                                                                                |
| <b>WB:</b>                  | >1:1,000                                                                                                                                                                                                                                                                                                                      |

## Formulation

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|------------------------|------------------------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                                              |
| <b>Concentration:</b>  | 1.0 mg/mL by UV absorbance at 280 nm                                   |
| <b>Buffer:</b>         | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2             |
| <b>Preservative:</b>   | 0.01% (w/v) Sodium Azide                                               |
| <b>Stabilizer:</b>     | 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free |

## Shipping & Handling

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| <b>Shipping Condition:</b> | Dry Ice |
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**Storage Condition:** Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

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**Expiration:** Expiration date is one (1) year from date of receipt.

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## 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.