

**Datasheet for 100-4160****Lipoamide Dehydrogenase Antibody****Overview**

|                      |                                                                           |
|----------------------|---------------------------------------------------------------------------|
| <b>Description:</b>  | Anti-Lipoamide Dehydrogenase (Porcine Heart) (RABBIT) Antibody - 100-4160 |
| <b>Item No.:</b>     | 100-4160                                                                  |
| <b>Size:</b>         | 2 mL                                                                      |
| <b>Reactivity:</b>   | Pig                                                                       |
| <b>Host Species:</b> | Rabbit                                                                    |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Background:</b>   | Lipoamide dehydrogenase is a component of the glycine cleavage system as well as an E3 component of the alpha-ketoacid dehydrogenase complexes (pyruvate-, alpha-ketoglutarate-, and branched-chain amino acid-dehydrogenase complex). In monomeric form it has additional moonlighting function as serine protease. It is involved in the hyperactivation of spermatazoa during capacitation and in the spermatazoal acrosome reaction. |
| <b>Synonyms:</b>     | rabbit anti-Lipoamide Dehydrogenase Antibody, Dihydrolipoyl dehydrogenase mitochondrial, Dihydrolipoamide dehydrogenase, Lipoamide Dehydrogenase [Porcine Heart]                                                                                                                                                                                                                                                                         |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Format:</b>       | Antiserum                                                                                                                                                                                                                                                                                                                                                                                                                                |

**Target Details**

|                            |                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Gene Name:</b>          | DLD LAD                                                                                                                                                                                                                                                                                                                                           |
| <b>Reactivity:</b>         | Pig                                                                                                                                                                                                                                                                                                                                               |
| <b>Immunogen Type:</b>     | Native Protein                                                                                                                                                                                                                                                                                                                                    |
| <b>Immunogen:</b>          | Lipoamide Dehydrogenase [Porcine Heart]                                                                                                                                                                                                                                                                                                           |
| <b>Purity/Specificity:</b> | This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-rabbit serum, purified and partially purified Lipoamide Dehydrogenase [Porcine Heart]. Cross reactivity against Lipoamide Dehydrogenase from other sources is unknown. |

**Relevant Links:**

- [UniProtKB - P09623](#)
- [NCBI - 118675](#)
- [GeneID - 397129](#)

## Application Details

**Application Note:**

This product has been assayed against 1.0 ug of Lipoamide Dehydrogenase [Porcine Heart] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) code #611-1302 and (ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:6,000 to 1:25,000 of the reconstitution concentration is suggested for this product.

|                         |                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------|
| <b>Assay Dilutions:</b> | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| <b>ELISA:</b>           | 1:5,000 - 1:20,000                                                                              |
| <b>IP:</b>              | 1:100                                                                                           |
| <b>WB:</b>              | 1:500 - 1:5,000                                                                                 |

## Formulation

|                               |                                                            |
|-------------------------------|------------------------------------------------------------|
| <b>Physical State:</b>        | Lyophilized                                                |
| <b>Concentration:</b>         | 90 mg/mL by Refractometry                                  |
| <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>            | None                                                       |
| <b>Reconstitution Volume:</b> | 2.0 mL                                                     |
| <b>Reconstitution Buffer:</b> | Restore with deionized water (or equivalent)               |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Shipping Condition:</b> | Ambient                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Condition:</b>  | 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. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                                                                                                                           |

## 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.