

## Datasheet for 200-401-045S

## Alpha Amylase Antibody

### Overview

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|----------------------|----------------------------------------------------------------------------------|
| <b>Description:</b>  | Anti-Alpha Amylase (Bacillus amyloliquefaciens) (RABBIT) Antibody - 200-401-045S |
| <b>Item No.:</b>     | 200-401-045S                                                                     |
| <b>Size:</b>         | 25 µL                                                                            |
| <b>Applications:</b> | ELISA, WB                                                                        |
| <b>Reactivity:</b>   | Bacillus amyloliquefaciens                                                       |
| <b>Host Species:</b> | Rabbit                                                                           |

### Product Details

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| <b>Background:</b>   | Alpha Amylase is a protein enzyme that preforms endohydrolysis of alpha bonds in large alpha linked polysaccharides, such as starch and glycogen, yielding glucose and maltose. Alpha Amylase applications include ethanol production and reduction of starch or glycogen molecules. Anti-Alpha Amylase Antibody is useful for researchers interested in Metabolism, Cancer, Cell Signaling, and Signal Transduction research. |
| <b>Synonyms:</b>     | rabbit anti-Alpha Amylase Antibody, Alpha-amylase, 1,4-alpha-D-glucan glucanohydrolase                                                                                                                                                                                                                                                                                                                                         |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                            |

### Target Details

|                        |                                        |
|------------------------|----------------------------------------|
| <b>Gene Name:</b>      | Alpha-amylase                          |
| <b>Reactivity:</b>     | Bacillus amyloliquefaciens             |
| <b>Immunogen Type:</b> | Native Protein                         |
| <b>Immunogen:</b>      | a-Amylase [Bacillus amyloliquefaciens] |

**Purity/Specificity:** Alpha Amylase Antibody 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-Rabbit Serum as well as purified and partially purified a-Amylase [Bacillus amyloliquefaciens]. Cross reactivity against a-Amylase from other tissues and species may occur but have not been specifically determined.

**Relevant Links:**

- [UniProtKB - P00692](#)
- [NCBI - WP\\_013352208.1](#)
- [GeneID - 7849308](#)

## Application Details

**Tested Applications:** ELISA, WB

**Application Note:** Anti-Alpha Amylase has been tested by ELISA and western blot and is assayed against 1.0 ug of a-Amylase [Bacillus amyloliquefaciens] 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 1:20,000 to 1:100,000 of the reconstitution concentration is suggested for this product.

**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

**ELISA:** 1:5,000 - 1:20,000

**IP:** 1:100

**WB:** 1:500 - 1:5,000

## Formulation

**Physical State:** Liquid (sterile filtered)

**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:** None

## Shipping & Handling

**Shipping Condition:** Dry Ice

**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 three (3) months 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.