

Datasheet for 100-4145**Alpha Amylase Antibody****Overview**

Description:	Anti-Alpha Amylase (Bacillus amyloliquefaciens) (RABBIT) Antibody - 100-4145
Item No.:	100-4145
Size:	2 mL
Reactivity:	Bacillus amyloliquefaciens
Host Species:	Rabbit

Product Details

Background:	Alpha Amylase is an enzyme that begins the digestion of starches. Specifically, Alpha Amylase cleaves the alpha bonds in large polysaccharides. Alpha Amylase is found in both the pancreas and saliva in humans, with salivary amylase beginning the digestion of starches and pancreatic amylase finishing the digestion. The large amount of conserved amino acid sequences and prevalence of alpha amylase enzymes has allowed this class of enzymes to be beneficial to industrial breakdown of starches into glucose and high-fructose corn syrup. Alpha amylase derived from bacillus amyloliquefaciens is also useful in the production of various detergents relying on the breakdown of starches. Anti-Alpha Amylase (Bacillus amyloliquefaciens) Antibody is ideal for investigators in Enzymology, Molecular Biology, and Microbiology research.
Synonyms:	rabbit anti-Alpha Amylase Antibody, Alpha-amylase, 1,4-alpha-D-glucan glucanohydrolase
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	Alpha-amylase
Reactivity:	Bacillus amyloliquefaciens
Immunogen Type:	Native Protein
Immunogen:	a-Amylase [Bacillus amyloliquefaciens]

Purity/Specificity: Anti-Alpha Amylase (*Bacillus amyloliquefaciens*) Antibody 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 α -Amylase [*Bacillus amyloliquefaciens*]. Cross reactivity against α -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

Application Note:	Anti-Alpha Amylase is useful in ELISA, WB, and IP. User Optimization is suggested.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:100,000
IP:	1:100
WB:	1:2,000 - 1:10,000

Formulation

Physical State:	Lyophilized
Concentration:	85 mg/mL by Refractometry
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	2.0 mL
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.

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.