



Anti-ALPHA AMYLASE (Bacillus amyloliquefaciens) (RABBIT) Antibody - 100-4145

Code: 100-4145

Size: 2 mL

Product Description: Anti-ALPHA AMYLASE (Bacillus amyloliquefaciens) (RABBIT) Antibody - 100-4145

Concentration: 85 mg/mL by Refractometry

Physical State: Lyophilized

Label	Unconjugated
Host	Rabbit
Gene Name	Alpha-amylase
Species Reactivity	Bacillus amyloliquefaciens
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Reconstitution Volume	2.0 mL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
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.
Synonyms	rabbit anti-Alpha Amylase Antibody, Alpha-amylase, 1,4-alpha-D-glucan glucanohydrolase
Application Note	Anti-Alpha Amylase is useful in ELISA, WB, and IP. User Optimization is suggested.
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 <i>Bacillus amyloliquefaciens</i> is also useful in the production of various detergents relying on the breakdown of starches. Anti-Alpha Amylase (<i>Bacillus amyloliquefaciens</i>) Antibody is ideal for investigators in Enzymology, Molecular Biology, and Microbiology research.
Purity And Specificity	Anti-Alpha Amylase (<i>Bacillus amyloliquefaciens</i>) Antibody was prepared from monospecific antiserum by a delipidation and defibrillation. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-rabbit serum, purified and partially purified α-Amylase [<i>Bacillus amyloliquefaciens</i>]. Cross reactivity against α-Amylase from other tissues and species may occur but have not been specifically determined.
Assay Dilutions	User Optimized
ELISA	1:20,000 - 1:100,000
Western Blot	1:2,000 - 1:10,000
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	α-Amylase [<i>Bacillus amyloliquefaciens</i>]
General Reference	Goodsell, David. "Alpha-Amylase." RCSB Protein Data Bank. Feb. 2006.
Specific Reference	van der Maarel, van der Veen, Uitdehaag, Leemhuis, and Dijkhuizen. "Properties and applications of starch-converting enzymes of the alpha-amylase family." J Biotechnol. 2002 Mar 28; 94(2): 137-55. "The use of enzymes in detergents." Science and the Built Environment, London South Bank University. 20 December 2004.
Related Products	

KCB002	HRP Western Blot Anti-Mouse IgG Antibody - KCB002
KCB003	HRP Western Blot Anti-Rabbit IgG Antibody - KCB003
MB-070	Blocking Buffer for Fluorescent Western Blotting - MB-070

Related Links

UniProtKB - P00692

<http://www.uniprot.org/uniprot/P00692>

NCBI - P00692.1 <http://www.ncbi.nlm.nih.gov/protein/P00692.1>

GeneID - 7849308

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