Datasheet for ABIN3043188

anti-AMY1A antibody (N-Term)

3 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	AMY1A
Binding Specificity:	AA 30-44, N-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AMY1A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Alpha-amylase 1(AMY1A) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human Alpha Amylase 1(30-44aa HLFEWRWVDIALECE), different from the related rat and mouse sequences by one amino acid.
Sequence:	HLFEWRWVDI ALECE
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.

Product Details

Characteristics:	Rabbit IgG polyclonal antibody for Alpha-amylase 1(AMY1A) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: amylase, alpha 1A(salivary) Protein Name: Alpha-amylase 1
Purification:	Immunogen affinity purified.

Target Details

Target:	AMY1A
Alternative Name:	AMY1A (AMY1A Products)
Background:	Amylase is an enzyme that catalyses the breakdown of starch into sugars. Amylase is present in human saliva, where it begins the chemical process of digestion. By in situ hybridization combined with high resolution cytogenetics, the amylase gene is mapped to 1p21.Amylase enzymes find use in bread making and to break down complex sugars such as starch(found in flour) into simple sugars. Yeast then feeds on these simple sugars and converts it into the waste products of alcohol and CO2. Synonyms: 1 antibody|4-alpha-D-glucan glucanohydrolase 1 antibody|Alpha-amylase 1 antibody|AMY1_HUMAN antibody|AMY1A antibody|AMY1B antibody|AMY1C antibody|Salivary alpha-amylase antibody
UniProt:	P04745

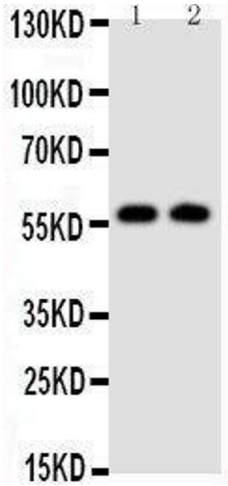
Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Rat, Predicted Species: Human, Mouse, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

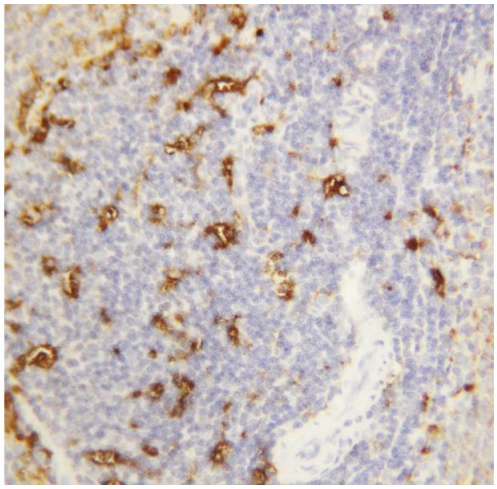
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

Images



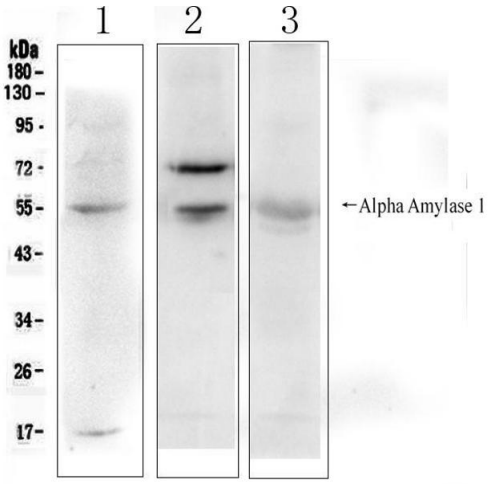
Western Blotting

Image 1. Anti-Alpha Amylase 1 antibody, Western blotting Lane 1: Rat Liver Tissue Lysate Lane 2: Rat Intestine Tissue Lysate



Immunohistochemistry

Image 2. Anti-Alpha Amylase 1 antibody, IHC(P) IHC(P): Rat Spleen Tissue



Western Blotting

Image 3. Western blot analysis of Alpha Amylase 1 using anti- Alpha Amylase 1 antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: human PANC-1 whole cell lysates, Lane 2: rat pancreas tissue lysates, Lane 3: mouse pancreas tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- Alpha Amylase 1 antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Alpha Amylase 1 at approximately 55-58KD. The expected band size for Alpha Amylase 1 is at 58KD.

