

Datasheet for ABIN116697 **anti-CELA1 antibody**



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Overview

Quantity:	2 mL
Target:	CELA1
Reactivity:	Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CELA1 antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Elastase [Porcine Pancreas].
Specificity:	Assay by immunoelectrophoresis resulted in a single precipitin arc against purified and partially purified Elastase [Porcine Pancreas]. Cross reactivity against Elastase from other tissues and species may occur but have not been specifically determined.
Purification:	Prepared from monospecific antiserum by a delipidation and defibrination.

Target Details

Target:	CELA1
Alternative Name:	Elastase-1 (CELA1 Products)
Background:	Elastases form a subfamily of serine proteases that hydrolyze many proteins in addition to elastin. Elastase is a serine protease which exhibits endopeptidase activity on many proteins, its principal substrate, however, is elastin and it is unique among proteases in its ability to

Target Details

hydrolyse native elastin. It is present in the pancreas, leukocytes and serum. Elastase consists of a single polypeptide chain with a molecular weight of 29.5 kDa. Humans have six elastase genes which encode the structurally similar proteins elastase 1, 2, 2A, 2B, 3A, and 3B. Like most of the human elastases, elastase 2A is secreted from the pancreas as a zymogen. In other species, elastase 2A has been shown to preferentially cleave proteins after leucine, methionine, and phenylalanine residues. Elastase 1 is not a pancreatic enzyme: clinical literature that describes human elastase 1 activity in the pancreas is actually referring to elastase 2A. Synonyms: CELA1, Chymotrypsin-like elastase family member 1, ELA1

Gene ID: 396766

NCBI Accession: [NP_998988](#)

UniProt: [P00772](#)

Application Details

Application Notes: Suitable for Immunoblotting (Western or Dot blot), ELISA, Immunoprecipitation and most immunological methods requiring high titer and specificity. Recommended Dilutions: : This product has been assayed against 1.0 µg of Elastase [Porcine Pancreas] in a standard sandwich ELISA using Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) and ABTS (2,2'-azino-bis-[3-ethylbenzthiazoline-6-sulfonic acid]) as a substrate for 30 minutes at room temperature. A working dilution of 1: 5,000 to 1: 20,000 of the reconstitution concentration is suggested for this product.

Other applications not tested.

Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Format: Liquid

Reconstitution: Restore with 2.0 mL of deionized water (or equivalent).

Concentration: 80.0 mg/mL (by Refractometry)

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 with 0.01 % sodium azide as preservative.

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

should be handled by trained staff only.

Handling Advice:	Dilute only prior to immediate use. Avoid cycles of freezing and thawing.
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Storage:	-20 °C
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Storage Comment:	Store vial at -20 °C prior to opening. For extended storage aliquot contents and freeze at -20 °C or below.
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