

Datasheet for ABIN5541903
anti-CELA1 antibody (Biotin)



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Overview

Quantity:	0.1 mg
Target:	CELA1
Reactivity:	Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CELA1 antibody is conjugated to Biotin
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Elastase from porcine pancreas
Specificity:	This antibody detects porcine elastase. Cross reactivity against elastase from other tissues and species has not been determined. Immunoelectrophoresis gives a single precipitin arc against anti-biotin, anti-rabbit serum as well as purified and partially purified elastase [porcine pancreas].
Purification:	Multi-step process including delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer

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

Target Details

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 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.

UniProt: [P00772](#)

Application Details

Application Notes: Suitable for immunoblotting (Western or dot blot), ELISA, immunoprecipitation, conjugation and most immunological methods requiring high titer and specificity. Recommended Dilutions: Western blot : 1/500-1/3,000. ELISA : 1/5,000-1/25,000 This product has been assayed against 1.0 µg of elastase [porcine pancreas] in a standard sandwich ELISA using peroxidase conjugated streptavidin and ABTS as a substrate for 30 minutes at room temperature. A working dilution of 1:4,000 to 1:20,000 of the reconstitution concentration is suggested.

Restrictions: For Research Use only

Handling

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Expiry Date: 12 months