

Human Elastase 1, Pancreatic (ELA1) ELISA Kit | ELA1 elisa kit

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CATALOG #
AAA138403

REACTIVITY
Human

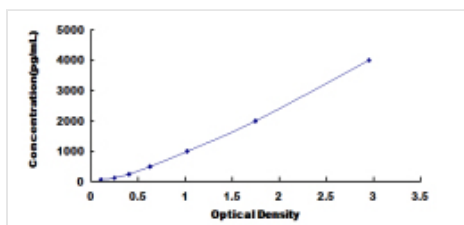
PRODUCT SYNONYMS

Elastase 1; Pancreatic (ELA1); Human Elastase 1; Pancreatic (ELA1) ELISA Kit; PE; CELA1; Chymotrypsin-Like Elastase Family; Member 1; ELA1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Elastase 1, Pancreatic (ELA1). No significant cross-reactivity or interference between Elastase 1, Pancreatic (ELA1) and analogues was observed.
Sequence Length	258
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates and other biological fluids
Detection Range	31.2-2,000pg/mL
Sensitivity	12.5pg/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Elastase 1, Pancreatic (ELA1) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Elastase 1, Pancreatic (ELA1) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ELA1 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Elastase 1, Pancreatic (ELA1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Elastase 1, Pancreatic (ELA1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Elastase 1, Pancreatic (ELA1), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Elastase 1, Pancreatic (ELA1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for ELA1 elisa kit	Enzyme & Kinase; Infection immunity; Hepatology

NCBI AND UNIPROT INFORMATION

NCBI GI #	119578593
NCBI GeneID	1990
UniProt Accession #	Q9UNI1; Q5MLF0; Q6DJT0; Q6ISM6
Molecular Weight	27,798 Da
NCBI Official Full Name	elastase 1, pancreatic
NCBI Official Synonym Full Names	chymotrypsin-like elastase family, member 1
NCBI Official Symbol	CELA1
NCBI Official Synonym Symbols	ELA1
NCBI Protein Information	chymotrypsin-like elastase family member 1
UniProt Protein Name	Chymotrypsin-like elastase family member 1
UniProt Gene Name	CELA1
UniProt Synonym Gene Names	ELA1
UniProt Entry Name	CELA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/elastase-1-pancreatic-ela1/138403>