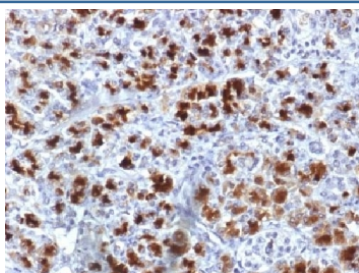


CELA3B Antibody / Elastase 3B [clone CELA3B/1757] (V3449)

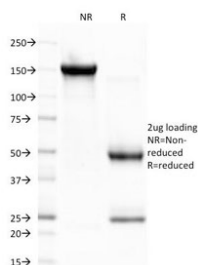
Catalog No.	Formulation	Size
V3449-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3449-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3449SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	CELA3B/1757
Purity	Protein G affinity chromatography
UniProt	P08861
Localization	Cytoplasmic
Applications	ELISA : 2-4ug/ml (order BSA/azide-free format) Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This CELA3B antibody is available for research use only.

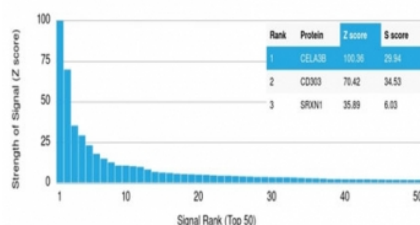


IHC testing of human pancreas with CELA3B antibody (clone CELA3B/1757). Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9, for 10-20 min followed by cooling at RT for 20 min.



SDS-PAGE Analysis of Purified, BSA-Free CELA3B Antibody (clone CELA3B/1757). Confirmation of Integrity and Purity of the Antibody.

Human Protein Microarray Specificity Validation



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using CELA3B antibody (clone CELA3B/1757). These results demonstrate the foremost specificity of the CELA3B/1757 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

This mAb recognizes a protein of ~30 kDa, identified as CELA3B (Chymotrypsin like elastase family member 3B), or Elastase 3B. Elastases form a subfamily of serine proteases that hydrolyze many proteins in addition to elastin. Humans have six genes which encode the structurally similar proteins: Elastase 1, 2, 2A, 2B, 3A, and 3B. Unlike other elastases, 3B has little elastolytic activity. Like most of the human elastases, 3B is secreted from the pancreas as a zymogen and, like other serine proteases such as trypsin, chymotrypsin and kallikrein; it has a digestive function in the intestine. Elastase 3B preferentially cleaves proteins after alanine residues. It may also function in the intestinal transport and metabolism of cholesterol. Elastases 3A/B have been referred to as Protease E and as Elastase 1, and excretion of this protein in fecal material is frequently used as a measure of pancreatic function in clinical assays.

Application Notes

Optimal dilution of the CELA3B antibody should be determined by the researcher.

Immunogen

A recombinant partial protein (aa 82-238) was used as the immunogen for the CELA3B antibody.

Storage

Store the CELA3B antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).