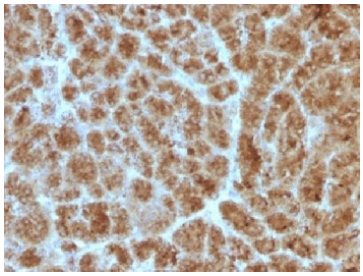
Elastase 3B Antibody / Pancreatic Digestive Enzyme [clone CELA3B/1257] (V3436)

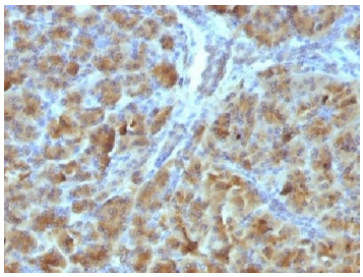
Catalog No.	Formulation	Size
V3436-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3436-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3436SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

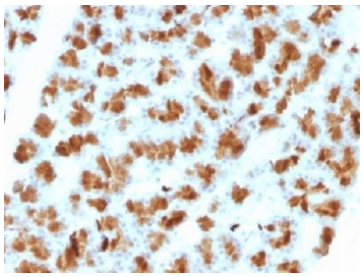
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	CELA3B/1257
Purity	Protein G
UniProt	P08861
Localization	Cytoplasmic
Applications	ELISA: 2-4ug/ml (order BSA/azide-free format) Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This Elastase 3B Antibody / Pancreatic Digestive Enzyme is available for research use only.



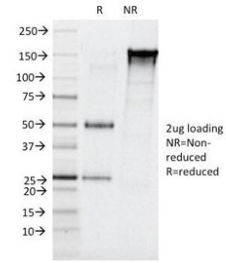
Elastase 3B Antibody Human Pancreas IHC. Immunohistochemistry analysis of FFPE human pancreas tissue stained with clone CELA3B/1257. Strong granular cytoplasmic HRP-DAB brown staining is observed throughout pancreatic acinar cell populations, consistent with expression of Chymotrypsin-like elastase family member 3B / CELA3B, a secreted digestive serine protease involved in exocrine pancreas function and digestive enzyme secretion pathways. 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.



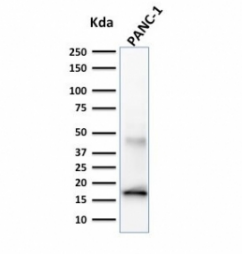
Elastase 3B Antibody Mouse Pancreas IHC. Immunohistochemistry analysis of FFPE mouse pancreas tissue stained with clone CELA3B/1257. Pancreatic acinar cells display strong granular cytoplasmic HRP-DAB brown staining consistent with expression of Chymotrypsin-like elastase family member 3B / CELA3B, an exocrine digestive enzyme associated with pancreatic secretory granules and acinar differentiation pathways. Surrounding stromal and ductal regions show comparatively limited background staining. 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.



Elastase 3B Antibody Rat Pancreas IHC. Immunohistochemistry analysis of FFPE rat pancreas tissue stained with clone CELA3B/1257. Strong granular cytoplasmic HRP-DAB brown staining is observed within pancreatic acinar cell populations, consistent with expression of Chymotrypsin-like elastase family member 3B / CELA3B, a digestive serine protease involved in exocrine pancreatic secretion and digestive enzyme processing pathways. 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 Elastase 3B Antibody (clone CELA3B/1257). Confirmation of Integrity and Purity of the Antibody.



Elastase 3B Antibody PANC-1 WB. Western blot analysis of human PANC-1 cell lysate using Elastase 3B Antibody / Pancreatic Digestive Enzyme clone CELA3B/1257. A band is detected at approximately 29 kDa, consistent with the predicted molecular weight of Chymotrypsin-like elastase family member 3B / CELA3B. The observed signal supports expression of this pancreatic digestive serine protease associated with exocrine pancreas differentiation and secretory enzyme pathways.

Description

Chymotrypsin-like elastase family member 3B (CELA3B), also known as Elastase 3B, is a pancreatic serine protease involved in digestion of dietary proteins within the exocrine gastrointestinal system. Elastase 3B Antibody / Pancreatic Digestive Enzyme is useful for studying pancreatic acinar cell biology, digestive enzyme secretion, and exocrine pancreas differentiation pathways. Elastase 3B antibody, also referred to as CELA3B antibody and pancreatic serine protease antibody in the literature, recognizes a secreted digestive enzyme predominantly produced by pancreatic acinar cells.

CELA3B belongs to the elastase subfamily of serine proteases that function in proteolytic processing of proteins during digestion. The protein is synthesized as an inactive zymogen within pancreatic acinar cells and becomes activated after secretion into the intestinal lumen. Elastase 3B is localized primarily within cytoplasmic secretory granules and exocrine compartments of pancreatic tissue where it contributes to digestive enzyme production and regulated secretory pathways. Because acinar cells produce high levels of digestive enzymes, Elastase 3B expression is strongly associated with exocrine pancreas identity and secretory differentiation.

Expression of CELA3B has become relevant in studies examining pancreatic development, acinar cell differentiation, chronic pancreatitis, and pancreatic tumor biology. Altered digestive enzyme expression patterns may accompany acinar-to-ductal metaplasia, inflammatory remodeling, and progression of pancreatic disease states. Elastase family proteins

have also been investigated as markers of exocrine pancreatic function and cellular differentiation within pancreatic neoplasia research models. Immunohistochemistry studies commonly demonstrate strong cytoplasmic staining in pancreatic acinar cell populations consistent with digestive enzyme storage and secretion pathways.

Because Elastase 3B is highly enriched in exocrine pancreatic tissue, this target is useful for distinguishing acinar differentiation patterns and evaluating pancreatic enzyme-associated cellular phenotypes. Western blot analysis commonly detects the expected Elastase 3B protein species in pancreatic-associated cell and tissue lysates, supporting applications in exocrine pancreas research and digestive enzyme biology. The protein may also be relevant to studies examining protease signaling, secretory granule organization, and pancreatic tissue remodeling associated with inflammatory or neoplastic disease progression.

A mouse monoclonal clone CELA3B/1257 antibody can be used for immunohistochemistry and western blot studies examining pancreatic digestive enzyme expression and acinar cell-associated signaling pathways. Because CELA3B functions as a major exocrine pancreatic protease, this target remains highly relevant for studies focused on pancreatic differentiation, digestive enzyme biology, exocrine tissue organization, and pancreatic disease research.

Researchers studying pancreatic differentiation, acinar cell biology, and digestive enzyme-associated tumor pathways may also be interested in our broader Cancer Antibodies collection featuring markers involved in pancreatic pathology, epithelial differentiation, and tumor microenvironment research.

Application Notes

Optimal dilution of the Elastase 3B Antibody / Pancreatic Digestive Enzyme should be determined by the researcher.

1. FFPE staining requires

Immunogen

A partial recombinant protein (amino acids 82-238) was used as the immunogen for the Elastase 3B antibody.

Storage

Store the Elastase 3B antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

CELA3B antibody, Elastase 3B pancreatic antibody, Chymotrypsin-like elastase family member 3B antibody, Pancreatic serine protease antibody, Acinar cell marker antibody

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