10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CELA3B / ELA3B (Pancreatic Function Marker) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone CELA3B/1218]
Catalog # AH11228

Specification

CELA3B / ELA3B (Pancreatic Function Marker) Antibody - With BSA and Azide - Product Information

Application	**,3,4,**
Primary Accession	P08861
Other Accession	23436, 728752
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse / IgG, kappa**
Calculated MW	**~17kDa KDa**

CELA3B / ELA3B (Pancreatic Function Marker) Antibody - With BSA and Azide - Additional Information

Gene ID 23436

Other Names
Chymotrypsin-like elastase family member 3B, 3.4.21.70, Elastase IIIB, Elastase-3B, Protease E, CELA3B, ELA3B

Storage
Store at 2 to 8°C.Antibody is stable for 24 months.

Precautions
CELA3B / ELA3B (Pancreatic Function Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

CELA3B / ELA3B (Pancreatic Function Marker) Antibody - With BSA and Azide - Protein Information

Name CELA3B

Synonyms ELA3B

Function
Efficient protease with alanine specificity but only little elastolytic activity.

Tissue Location
Pancreas. Not detectable in keratinocytes.

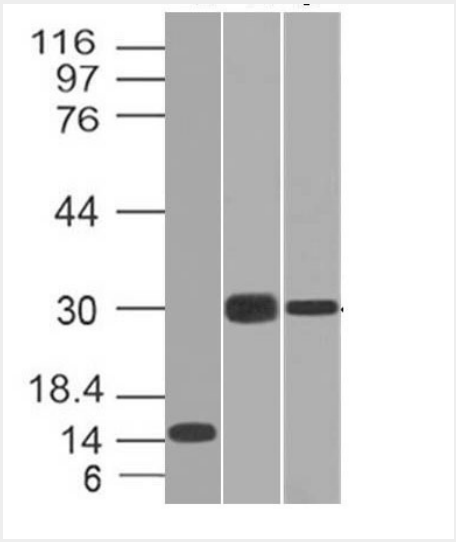
CELA3B / ELA3B (Pancreatic Function Marker) Antibody - With BSA and Azide - Protocols

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CELA3B / ELA3B (Pancreatic Function Marker) Antibody - With BSA and Azide - Images



Western Blot of Recombinant, Panc-28 and PANC1 Cell Lysates using CELA3B Monoclonal Antibody (CELA3B/1218).

CELA3B / ELA3B (Pancreatic Function Marker) Antibody - With BSA and Azide - Background

This MAb recognizes a protein of ~17kDa, identified as CELA3B (Chymotrypsin like elastase family member 3B). Elastases form a subfamily of serine proteases that hydrolyze many proteins in addition to elastin. Humans have six elastase genes which encode the structurally similar proteins elastase 1, 2, 2A, 2B, 3A, and 3B. Unlike other elastases, elastase 3B has little elastolytic activity. Like most of the human elastases, elastase 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. Elastase 3B may also function in the intestinal transport and metabolism of cholesterol. Both elastase 3A and elastase 3B 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.

CELA3B / ELA3B (Pancreatic Function Marker) Antibody - With BSA and Azide - References

Shirasu, Y., et al. 1988. Molecular cloning of complementary DNA encoding one of the human pancreatic protease E isozymes. J. Biochem. 104:259-264. | Tani, T., et al. 1988. Identification of a novel class of elastase isozyme, human pancreatic elastase III, by cDNA and genomic gene cloning. J. Biol. Chem. 263: 1231-1239. | Shimada, S., et al. 2002. Pancreatic elastase IIIA and its variants are expressed in pancreatic carcinoma cells. Int. J. Mol. Med. 10: 599-603