

# Anti-CELA3B / ELA3B Antibody

Mouse Monoclonal Antibody Catalog # AH13241

#### **Product Information**

**Application** WB, IHC-P, IF, FC, E

Primary Accession P08861
Other Accession 728752
Reactivity Human
Host Mouse
Clonality Monoclonal

**Isotype** Mouse / IgG1, kappa

Clone Names CELA3B/1757

Calculated MW 29263

### **Additional Information**

**Gene ID** 23436

Other Names Chymotrypsin like elastase family member 3B (CELA3B); ELA3B; Elastase IIIB;

Protease E

**Application Note** ELISA (Use Ab at 2-4ug/ml for coating) (Order Ab without BSA), Flow Cytometry

(0.5-1ug/million cells); Immunofluorescence (0.5-1ug/ml); Western Blotting (0.5-1ug/ml); ,Immunohistology (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 10-20 min followed by cooling at RT for 20 minutes) ,Optimal dilution for a specific application should be determined.

**Format** 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G.

Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available

WITHOUT BSA & azide at 1.0mg/ml.

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

**Precautions** Anti-CELA3B / ELA3B Antibody is for research use only and not for use in

diagnostic or therapeutic procedures.

#### **Protein Information**

Name CELA3B

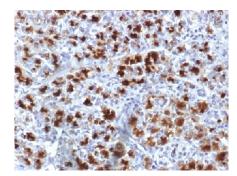
Synonyms ELA3B

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

# **Background**

This MAb recognizes a protein of ~30kDa, 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.

## **Images**



Formalin-fixed, paraffin-embedded Human Pancreas stained with CELA3B Monoclonal Antibody (CELA3B/1757)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.