

## Mouse anti-Human CELA3B/ELA3B Antibody | anti-CELA3B antibody

CELA3B/ELA3B (Pancreatic Function Marker)

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                       |
|-----------|-------|------------|------------------------------------|
| AAA214972 | Mouse | Human      | Immunohistochemistry, Western Blot |

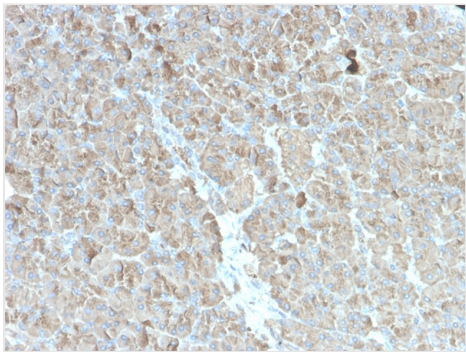
### PRODUCT SYNONYMS

CELA3B/ELA3B; CELA3B/ELA3B (Pancreatic Function Marker); Chymotrypsin like elastase family member 3B (CELA3B); ELA3B; Elastase IIIB; Protease E; anti-CELA3B antibody

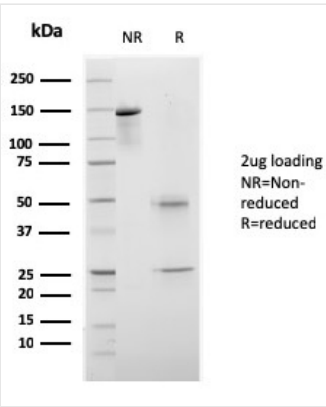
### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Reactivity                                       | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Isotype                                          | IgG1, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Clone Number                                     | rCELA3B/1811                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Specificity                                      | 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. |
| Purity/Purification                              | Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Form/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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Sequence Length                                  | 270                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Applicable Applications for anti-CELA3B antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Positive Control                                 | Panc-28 or PANC1 cells. Human Pancreas.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Immunogen                                        | Recombinant human CELA3B protein fragment (around aa 82-238) (exact sequence is proprietary)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Cellular Localization                            | Cytoplasmic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Hu-chromosome Location                           | 1p36.12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Antibody Type                                    | Recombinant Mouse Monoclonal Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Preparation and Storage                          | Antibody with azide: store at 2 to 8 degree C.<br>Antibody without azide: store at -20 to -80 degree C.<br>Antibody is stable for 24 months. Non-hazardous. No MSDS required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

IMAGES



**IHC (Immunohistochemistry)**  
Formalin-fixed, paraffin-embedded human pancreas stained with CELA3B Recombinant Mouse Monoclonal Antibody (rCELA3B/1811)



**SDS-PAGE**  
SDS-PAGE Analysis Purified CELA3B Recombinant Mouse Monoclonal Antibody (rCELA3B/1811). Confirmation of Purity and Integrity of Antibody.

ADDITIONAL INFORMATION

|            |                                                                                                                      |
|------------|----------------------------------------------------------------------------------------------------------------------|
| References | 1. Shimada, S., et al. 2002. Int. J. Mol. Med. 10: 599-603. 2. Tani, T., et al. 1988. J. Biol. Chem. 263: 1231-1239. |
|------------|----------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                           |
|----------------------------------|-----------------------------------------------------------|
| NCBI GI #                        | 6679625                                                   |
| NCBI GeneID                      | 23436                                                     |
| NCBI Accession #                 | NP_031378                                                 |
| NCBI GenBank Nucleotide #        | NP_031378.1                                               |
| UniProt Accession #              | P08861                                                    |
| Molecular Weight                 | ~17kDa                                                    |
| NCBI Official Full Name          | chymotrypsin-like elastase family member 3B preproprotein |
| NCBI Official Synonym Full Names | chymotrypsin like elastase 3B                             |
| NCBI Official Symbol             | CELA3B                                                    |
| NCBI Official Synonym Symbols    | CBPP; ELA3B                                               |
| NCBI Protein Information         | chymotrypsin-like elastase family member 3B               |
| UniProt Protein Name             | Chymotrypsin-like elastase family member 3B               |
| UniProt Gene Name                | CELA3B                                                    |
| UniProt Synonym Gene Names       | ELA3B                                                     |
| UniProt Entry Name               | CEL3B_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.