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PRSS3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11927c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P35030
Other Accession	NP_002762.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31598
Calculated MW	32529
Antigen Region	136-163

Additional Information

Gene ID	5646
Other Names	Trypsin-3, Brain trypsinogen, Mesotrypsinogen, Serine protease 3, Serine protease 4, Trypsin III, Trypsin IV, PRSS3, PRSS4, TRY3, TRY4
Target/Specificity	This PRSS3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 136-163 amino acids from the Central region of human PRSS3.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PRSS3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PRSS3
Synonyms	PRSS4, TRY3, TRY4

Function	Digestive protease that cleaves proteins preferentially after an Arg residue and has proteolytic activity toward Kunitz-type trypsin inhibitors.
Cellular Location	Secreted.
Tissue Location	Detected in pancreas and pancreatic fluid (at protein level) (PubMed:6698368). Expressed in pancreas and brain (PubMed:8294000). Detected in ileum (PubMed:12021776)

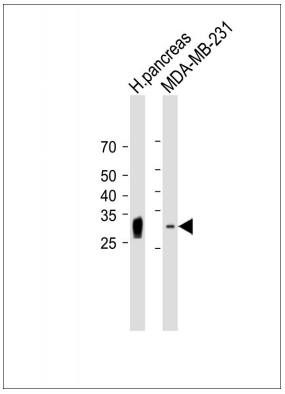
Background

This gene encodes a trypsinogen, which is a member of the trypsin family of serine proteases. This enzyme is expressed in the brain and pancreas and is resistant to common trypsin inhibitors. It is active on peptide linkages involving the carboxyl group of lysine or arginine. This gene is localized to the locus of T cell receptor beta variable orphans on chromosome 9. Four transcript variants encoding different isoforms have been described for this gene.

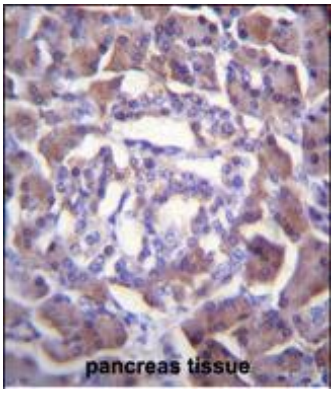
References

Jiang, G., et al. Gut 59(11):1535-1544(2010)
Nakanishi, J., et al. J. Invest. Dermatol. 130(4):944-952(2010)
Salameh, M.A., et al. J. Biol. Chem. 285(3):1939-1949(2010)
Rosendahl, J., et al. Pancreatology 10 (2-3), 243-249 (2010) :
Koistinen, H., et al. Neuroscience 160(1):97-102(2009)

Images

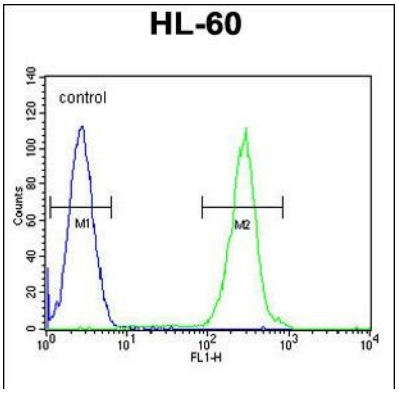


All lanes: Anti-PRSS3 Antibody (Center) at 1:2000 dilution Lane 1: Human pancreas lysate Lane 2: MDA-MB-231 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 33 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



PRSS3 Antibody (Center) (Cat. #AP11927c)immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of PRSS3 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

PRSS3 Antibody (Center) (Cat. #AP11927c) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated



goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- Enterokinase Enhances Influenza A Virus Infection by Activating Trypsinogen in Human Cell Lines.