

PRSS3 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP10489a

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	RB24403
Calculated MW	32529
Antigen Region	13-40

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 13-40 amino acids from the N-terminal 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 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
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 (N-term) 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)

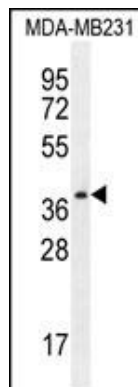
Background

PRSS3 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. PRSS3 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.

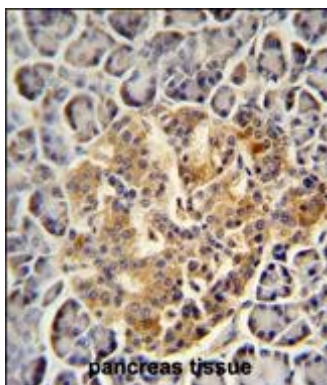
References

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 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

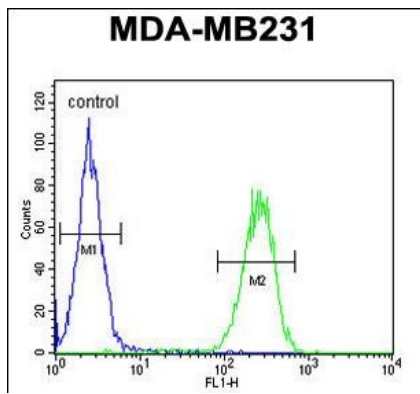


PRSS3 Antibody (N-term) (Cat. #AP10489a) western blot analysis in MDA-MB231 cell line lysates (35ug/lane). This demonstrates the PRSS3 antibody detected the PRSS3 protein (arrow).



PRSS3 antibody (N-term) (Cat. #AP10489a) 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 the PRSS3 antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

PRSS3 Antibody (N-term) (Cat. #AP10489a) flow cytometric analysis of MDA-MB231 cells (right histogram) compared to a negative control cell (left)



histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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