Product Name: Trypsin-1 Rabbit Polyclonal Antibody
Catalog #: APRab19344

Summary

Production Name	Trypsin-1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	PRSS1
Alternative Names	PRSS1; TRP1; TRY1; TRYP1; Trypsin-1; Beta-trypsin; Cationic trypsinogen; Serine protease 1; Trypsin I
Gene ID	5644.0
SwissProt ID	P07477.The antiserum was produced against synthesized peptide derived from human Trypsin-1. AA range:60-109

Application

Dilution Ratio	WB 1:500 - 1:2000. ELISA: 1:10000
Molecular Weight	23kD

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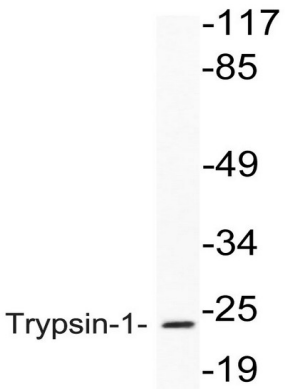
Background

This gene encodes a trypsinogen, which is a member of the trypsin family of serine proteases. This enzyme is secreted by the pancreas and cleaved to its active form in the small intestine. It is active on peptide linkages involving the carboxyl group of lysine or arginine. Mutations in this gene are associated with hereditary pancreatitis. This gene and several other trypsinogen genes are localized to the T cell receptor beta locus on chromosome 7. [provided by RefSeq, Jul 2008],catalytic activity:Preferential cleavage: Arg-|-Xaa, Lys-|-Xaa.,caution:Tyr-154 was proposed to be phosphorylated (PubMed:8683601) but it has been shown (PubMed:17087724) to be sulfated instead. Phosphate and sulfate groups are similar in mass and size, and this can lead to erroneous interpretation of the results.,cofactor:Binds 1 calcium ion per subunit.,disease:Defects in PRSS1 are a cause of hereditary pancreatitis (HPC) [MIM:167800]; also known as chronic pancreatitis (CP). HPC is an autosomal dominant disease characterized by the presence of calculi in pancreatic ducts. It causes severe abdominal pain attacks.,function:Has activity against the synthetic substrates Boc-Phe-Ser-Arg-Mec, Boc-Leu-Thr-Arg-Mec, Boc-Gln-Ala-Arg-Mec and Boc-Val-Pro-Arg-Mec. The single-chain form is more active than the two-chain form against all of these substrates.,mass spectrometry: PubMed:8683601,PTM:Occurs in a single-chain form and a two-chain form, produced by proteolytic cleavage after Arg-122.,similarity:Belongs to the peptidase S1 family.,similarity:Contains 1 peptidase S1 domain.,

Research Area

Neuroactive ligand-receptor interaction;

Image Data



Western blot analysis of lysate from 293 cells, using Trypsin-1 antibody.

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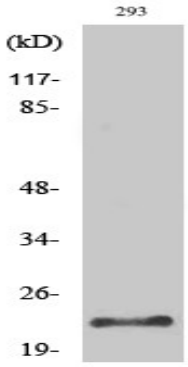

Western Blot analysis of various cells using Trypsin-1 Polyclonal Antibody diluted at 1： 500. Secondary antibody was diluted at 1:20000

Note

For research use only.