10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PROSAAS Rabbit pAb

PROSAAS Rabbit pAb
Catalog # AP54595

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9UHG2
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27372
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PROSAAS
Epitope Specificity	34-130/260
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted. Golgi apparatus > trans-Golgi network. A N-terminal processed peptide, probably Big SAAS or Little SAAS, is accumulated in cytoplasmic protein tau deposits in frontotemporal dementia and parkinsonism linked to chromosome 17 (Pick disease), Alzheimer disease and amyotrophic lateral sclerosis-parkinsonism/dementia complex 1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene functions as an inhibitor of prohormone convertase 1, which regulates the proteolytic cleavage of neuroendocrine peptide precursors. The proprotein is further processed into multiple short peptides. A polymorphism within this gene may be associated with obesity. [provided by RefSeq, Aug 2013]

Additional Information

Gene ID	27344
Other Names	ProSAAS, Proprotein convertase subtilisin/kexin type 1 inhibitor, Proprotein convertase 1 inhibitor, pro-SAAS, KEP, Big SAAS, b-SAAS, Little SAAS, l-SAAS, N-proSAAS, Big PEN-LEN, b-PEN-LEN, SAAS CT(1-49), PEN, Little LEN, l-LEN, Big LEN, b-LEN, SAAS CT(25-40), PCSK1N
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	PCSK1N
Function	May act as a protein chaperone that prevents the aggregation of client proteins and plays a role in neuroprotection (PubMed:24042052). Blocks the trans-synaptic spread of SNCA/alpha- synuclein in the brain. May form spheres that encapsulate client proteins (By similarity). May prevent aggregation of amyloid beta, IAPP/islet amyloid polypeptide, and SNCA/alpha-synuclein (PubMed:24042052). Cannot disaggregate preformed fibrils. Additionally, may function in the control of the neuroendocrine secretory pathway by acting as a specific endogenous inhibitor of PCSK1. ProSAAS and Big PEN-LEN, both containing the C-terminal inhibitory domain, reduce the activity of the 87 kDa form of PCSK1, but not the autocatalytically derived 66 kDa form, in the endoplasmic reticulum and Golgi. May control the intracellular timing of PCSK1 rather than its total level of activity and slows down convertase-mediated processing of proopiomelanocortin and proenkephalin (By similarity).
Cellular Location	Secreted. Golgi apparatus, trans-Golgi network {ECO:0000250|UniProtKB:Q9QXV0} Note=Proteotoxic stress stimulates its intracellular retention (By similarity). An N-terminal processed peptide, probably Big SAAS or Little SAAS, is accumulated in cytoplasmic protein tau deposits in frontotemporal dementia and parkinsonism linked to chromosome 17 (Pick disease), Alzheimer disease and amyotrophic lateral sclerosis- parkinsonism/dementia complex 1 (Guam disease) (PubMed:12914799, PubMed:14746899). Colocalizes with extracellular amyloid plaques in Alzheimer disease (PubMed:24102330). {ECO:0000250|UniProtKB:Q9QXV0, ECO:0000269|PubMed:12914799, ECO:0000269|PubMed:14746899, ECO:0000269|PubMed:24102330}
Tissue Location	Expressed in brain and pancreas (PubMed:10632593). Expressed in the substantia nigra where its level is increased in patients with Parkinson's disease (PubMed:27457957)

Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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