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Pcsk1n Antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14369

Product Information

Application	WB
Primary Accession	Q9QXU9
Other Accession	NM_019279, NP_062152
Reactivity	Human, Mouse, Rat, Dog, Guinea Pig, Bovine
Predicted	Human, Mouse, Rat, Pig, Dog, Guinea Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27414

Additional Information

Gene ID	246333
Alias Symbol	Saas
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, Big PEN-LEN, b-PEN-LEN, SAAS CT(1-49), PEN, PEN-20, Little LEN, l-LEN, Big LEN, b-LEN, SAAS CT(25-40), Pcsk1n
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Pcsk1n antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Pcsk1n Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

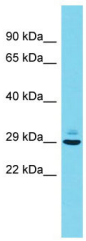
Name	Pcsk1n
Function	May act as a protein chaperone that prevents the aggregation of client proteins and plays a role in neuroprotection. Blocks the trans-synaptic spread of SNCA/alpha-synuclein in the brain. May form spheres that encapsulate client proteins. May prevent aggregation of amyloid beta and SNCA/alpha-synuclein. Cannot disaggregate preformed fibrils. Additionally, may regulate the neuroendocrine secretory pathway by acting as a specific endogenous inhibitor of PCSK1 (PubMed:10632593, PubMed:10816562). 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 (PubMed:10632593, PubMed:10816562). 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 {ECO:0000250|UniProtKB:Q9QXV0}. Golgi apparatus, trans-Golgi network {ECO:0000250|UniProtKB:Q9QXV0} Note=Proteotoxic stress stimulates its intracellular retention {ECO:0000250|UniProtKB:Q9QXV0}
Tissue Location	Expressed in adult brain (all major structural regions), adrenal gland (medulla) and spinal cord (dorsal and ventral horn). Expressed in pancreatic islands.

References

Fricker L.,et al.J. Neurosci. 20:639-648(2000).
Donadel G.,et al.Neuroendocrinology 67:190-196(1998).
Qian Y.,et al.J. Biol. Chem. 275:23596-23601(2000).
Mzhavia N.,et al.Biochem. J. 361:67-76(2002).
Morgan D.J.,et al.J. Neurochem. 93:1454-1462(2005).

Images



Host: Rabbit
Target Name: Pcsk1n
Sample Tissue: Rat Thymus lysates
Antibody Dilution: 1.0μg/ml

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