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

PCSK1 (14N9) Rabbit Monoclonal Antibody

PCSK1 (14N9) Rabbit Monoclonal Antibody
Catalog # AP93750

Product Information

Application	WB, IHC, IF, FC, ICC, IP
Primary Accession	P29120, P63239, P28840
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Calculated MW	84152

Additional Information

Gene ID	5122
Dilution	WB~~1:1000 IHC~~1:100~500 IF~~1:50~200 FC~~1:10~50 ICC~~N/A IP~~N/A
Storage Conditions	-20℃

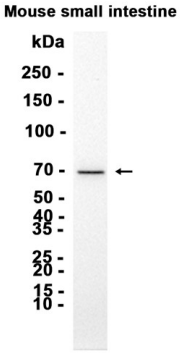
Protein Information

Name	PCSK1
Synonyms	NEC1
Function	Involved in the processing of hormone and other protein precursors at sites comprised of pairs of basic amino acid residues. Substrates include POMC, renin, enkephalin, dynorphin, somatostatin, insulin and AGRP.
Cellular Location	Cytoplasmic vesicle, secretory vesicle. Note=Localized in the secretion granules

Background

This gene encodes a member of the subtilisin-like proprotein convertase family, which includes proteases that process protein and peptide precursors trafficking through regulated or constitutive branches of the secretory pathway. The encoded protein undergoes an initial autocatalytic processing event in the ER to generate a heterodimer which exits the ER and sorts to subcellular compartments where a second autocatalytic even takes place and the catalytic activity is acquired. The protease is packaged into and activated in dense core secretory granules and expressed in the neuroendocrine system and brain. This gene encodes one of the seven basic amino acid-specific members which cleave their substrates at single or paired basic residues. It functions in the proteolytic activation of polypeptide hormones and neuropeptides precursors. Mutations in this gene have been associated with susceptibility to obesity and proprotein convertase 1/3 deficiency. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene [provided by RefSeq, Jan 2014]

Images



Western blot analysis of extracts from Mouse small intestine tissue using AP93750 at 1:1000.