

Anti-PC1/3 Antibody

Catalog # ABO11391

Product Information

Application	WB, IHC-P
Primary Accession	P29120
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Neuroendocrine convertase 1(PCSK1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	5122
Other Names	Neuroendocrine convertase 1, NEC 1, 3.4.21.93, Prohormone convertase 1, Proprotein convertase 1, PC1, PCSK1, NEC1
Calculated MW	84152
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Rat, Human, Mouse, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Rat, Mouse
Subcellular Localization	Cytoplasmic vesicle, secretory vesicle. Localized in the secretion granules.
Source	Eukaryota
Protein Name	Neuroendocrine convertase 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human PC1/3(726-740aa DVFYNTKPYKHRDDR), identical to the related mouse and rat sequences.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20° C for one year. After r° Constitution, at 4° C for one month. It° Can also be aliquotted and stored frozen at -20° C for a longer time.Avoid repeated

Sequence Similarities

freezing and thawing.

Belongs to the peptidase S8 family. Furin subfamily.

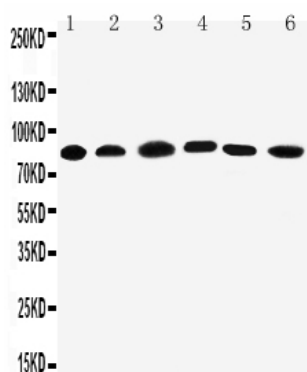
Protein Information

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, oxytocin, vasopressin, enkephalin, dynorphin, somatostatin, insulin and AGRP.
Cellular Location	Cytoplasmic vesicle, secretory vesicle. Note=Localized in the secretion granules

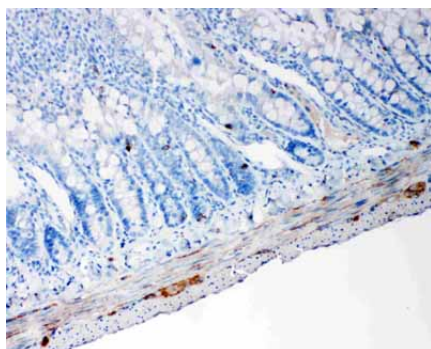
Background

PCSK1(Proprotein Convertase, Subtilisin/Kexin-Type, 1), also known as PC1 or NEC1, is an enzyme that in humans is encoded by the PCSK1 gene. Proprotein convertase-1 is a neuroendocrine convertase that belongs to a family of subtilisin-like serine endoproteases that process large precursor proteins into mature bioactive products. By in situ hybridization, Seidah et al.(1991) mapped the NEC1 gene to human chromosome 5q15-q21 and mouse chromosome 13. Ohagi et al.(1996) noted that PC1 initiates the sequential processing of proinsulin to insulin by cleaving the proinsulin molecule on the C-terminal side of the dibasic peptide, arg31-arg32, joining the B-chain and C-peptide. By observing the phenotypic features in patients with PC1 mutations, Jackson et al.(2003) concluded that human intestinal absorptive function is dependent on PC1 activity.

Images



Anti-PC1/3 antibody, ABO11391, Western blotting
Lane 1: Rat Liver Tissue Lysate
Lane 2: Rat Thymus Tissue Lysate
Lane 3: A549 Cell Lysate
Lane 4: HELA Cell Lysate
Lane 5: COLO320 Cell Lysate
Lane 6: PANC Cell Lysate



Anti-PC1/3 antibody, ABO11391, IHC(P)
IHC(P): Rat Intestine Tissue

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