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PCSK2/Proprotein Convertase 2 Rabbit pAb

Catalog # AP99450

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P16519
Other Accession	P16519
Reactivity	Rat, Mouse
Predicted	Human, Chicken, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70565
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Proprotein Convertase 2
Epitope Specificity	201-300/638
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the peptidase S8 family. Furin subfamily.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the subtilisin-like proprotein convertase family. These enzymes process latent precursor proteins into their biologically active products. The encoded protein plays a critical role in hormone biosynthesis by processing a variety of prohormones including proinsulin, proopiomelanocortin and proluteinizing-hormone-releasing hormone. Single nucleotide polymorphisms in this gene may increase susceptibility to myocardial infarction and type 2 diabetes. This gene may also play a role in tumor development and progression. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2011].

Additional Information

Gene ID	5126
Other Names	NEC 2; NEC-2; NEC2; PC2; SPC2; 6330411F23Rik; Phpp-2; NEC2_HUMAN; PCSK2; KEX2-like endoprotease 2; Prohormone convertase 2; Proprotein convertase 2 (PC2); 3.4.21.94; NEC2_MOUSE; proprotein convertase subtilisin/kexin type 2; neuroendocrine convertase 2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	PCSK2
Synonyms	NEC2
Function	Serine endopeptidase which is involved in the processing of hormone and other protein precursors at sites comprised of pairs of basic amino acid residues (PubMed:28719828, PubMed:7626024, PubMed:8879041, PubMed:9287128). Responsible for the release of glucagon from proglucagon in pancreatic A cells (PubMed:9287128). Mediates the release of insulin from proinsulin (PubMed:7626024).
Cellular Location	Cytoplasmic vesicle, secretory vesicle. Secreted. Note=Localized in the secretion granules

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