

Anti-ProProtein Convertase 2 Antibody

Catalog # ABO11392

Specification

Anti-ProProtein Convertase 2 Antibody - Product Information

ApplicationIHC, WBPrimary AccessionP16519HostRabbitReactivityHuman, Mouse, RatClonalityPolyclonalFormatLyophilizedDescriptionRabbit IgG polyclonal antibody for Neuroendocrine convertase 2(PCSK2) detection. Tested withWB, IHC-P in Human; Mouse; Rat.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-ProProtein Convertase 2 Antibody - Additional Information

Gene ID 5126

Other Names Neuroendocrine convertase 2, NEC 2, 3.4.21.94, KEX2-like endoprotease 2, Prohormone convertase 2, Proprotein convertase 2, PC2, PCSK2, NEC2

Calculated MW 70565 MW KDa

Application Details Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat
blot, 0.1-0.5 µg/ml, Human, Mouse, Rat
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Subcellular Localization Cytoplasmic vesicle, secretory vesicle. Localized in the secretion granules.

Protein Name Neuroendocrine convertase 2

Contents Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen A synthetic peptide corresponding to a sequence at the N-terminus of human Proprotein Convertase 2(110-125aa GYRDINEIDINMNDPL), 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 freezing and thawing.

Sequence Similarities Belongs to the peptidase S8 family. Furin subfamily.

Anti-ProProtein Convertase 2 Antibody - 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. Responsible for the release of glucagon from proglucagon in pancreatic A cells.

Cellular Location

Cytoplasmic vesicle, secretory vesicle. Secreted. Note=Localized in the secretion granules

Anti-ProProtein Convertase 2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Anti-ProProtein Convertase 2 Antibody - Images



Anti-Proprotein Convertase 2 antibody, ABO11392, IHC(P)IHC(P): Rat Pancreas Tissue



Anti-Proprotein Convertase 2 antibody, ABO11392, Western blottingAll lanes: Anti Proprotein Convertase 2 (ABO11392) at 0.5ug/mIWB: PANC Whole Cell Lysate at 40ugPredicted bind size: 71KDObserved bind size: 71KD

Anti-ProProtein Convertase 2 Antibody - Background

PCSK2(Proprotein Convertase, Subtilisin/Kexin-Type, 2), also known as PC2 or NEC2, is an enzyme responsible for the first step in the maturation of many neuroendocrine peptides from their precursors, such as the conversion of proinsulin to insulin intermediates. Seidah et al.(1991) mapped the NEC2 gene to human chromosome 20p11.2-p11.1. Ohagi et al.(1992) observed expression of the chloramphenicol acetyltransferase reporter fusions containing the putative promoter region in insulinoma cells but not in hepatoma cells, consistent with the known tissue-specific pattern of expression of the PC2 gene. Analysis of the level of CAT activity with several deletion mutants identified the region from -1100 to -539 from the translation start site as essential for PC2 promoter activity.