

## PCSK9 Rabbit mAb

**Catalog # AP75878** 

# **Specification**

## PCSK9 Rabbit mAb - Product Information

Application
Primary Accession
Reactivity
Host
Clonality
Calculated MW

WB
<u>O8NBP7</u>
Human
Rabbit
Monoclonal Antibody

74286

## PCSK9 Rabbit mAb - Additional Information

**Gene ID 255738** 

Other Names PCSK9

**Dilution** WB~~1/500-1/1000

Format Liquid

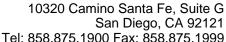
# PCSK9 Rabbit mAb - Protein Information

Name PCSK9

**Synonyms NARC1** 

## **Function**

Crucial player in the regulation of plasma cholesterol homeostasis. Binds to low-density lipid receptor family members: low density lipoprotein receptor (LDLR), very low density lipoprotein receptor (VLDLR), apolipoprotein E receptor (LRP1/APOER) and apolipoprotein receptor 2 (LRP8/APOER2), and promotes their degradation in intracellular acidic compartments (PubMed: <a href="http://www.uniprot.org/citations/18039658" target="\_blank">18039658</a>). Acts via a non- proteolytic mechanism to enhance the degradation of the hepatic LDLR through a clathrin LDLRAP1/ARH-mediated pathway. May prevent the recycling of LDLR from endosomes to the cell surface or direct it to lysosomes for degradation. Can induce ubiquitination of LDLR leading to its subsequent degradation (PubMed: <a href="http://www.uniprot.org/citations/17461796" target=" blank">17461796</a>, PubMed:<a href="http://www.uniprot.org/citations/18197702" target="blank">18197702</a>, PubMed:<a href="http://www.uniprot.org/citations/18799458" target="blank">18799458</a>, PubMed:<a href="http://www.uniprot.org/citations/22074827" target="blank">22074827</a>). Inhibits intracellular degradation of APOB via the autophagosome/lysosome pathway in a LDLR-independent manner. Involved in the disposal of non-acetylated intermediates of BACE1 in the early secretory pathway (PubMed:<a href="http://www.uniprot.org/citations/18660751" target=" blank">18660751</a>). Inhibits







epithelial Na(+) channel (ENaC)-mediated Na(+) absorption by reducing ENaC surface expression primarily by increasing its proteasomal degradation. Regulates neuronal apoptosis via modulation of LRP8/APOER2 levels and related anti-apoptotic signaling pathways.

# **Cellular Location**

Cytoplasm. Secreted. Endosome. Lysosome. Cell surface. Endoplasmic reticulum. Golgi apparatus. Note=Autocatalytic cleavage is required to transport it from the endoplasmic reticulum to the Golgi apparatus and for the secretion of the mature protein Localizes to the endoplasmic reticulum in the absence of LDLR and colocalizes to the cell surface and to the endosomes/lysosomes in the presence of LDLR. The sorting to the cell surface and endosomes is required in order to fully promote LDLR degradation

## **Tissue Location**

Expressed in neuro-epithelioma, colon carcinoma, hepatic and pancreatic cell lines, and in Schwann cells

# PCSK9 Rabbit mAb - Protocols

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

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

# PCSK9 Rabbit mAb - Images

