

PCSK9 Polyclonal antibody

Catalog Number: 27882-1-AP

Featured Product

6 Publications

Basic Information

Catalog Number:

27882-1-AP

Size:

600 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG27254

GenBank Accession Number:

NM_174936.3

GeneID (NCBI):

255738

UNIPROT ID:

Q8NBP7

Full Name:

proprotein convertase
subtilisin/kexin type 9

Calculated MW:

74 kDa

Observed MW:

72-78 kDa, 62 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

Applications

Tested Applications:

FC, WB, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

Human, mouse, rat

Cited Species:

human, rat, mouse

Positive Controls:

WB : HepG2 cells, rat liver tissue, mouse liver tissue

Background Information

Proprotein convertase subtilisin/kexin type 9 (PCSK9) is a crucial protein governing the circulating levels of low density lipoprotein-cholesterol (LDL-C), by virtue of its pivotal role in the degradation of the LDL receptor (LDLR). PCSK9 is expressed in the kidney and lung. It is synthesized as a 72 kDa immature precursor that undergoes autocatalytic cleavage in the endoplasmic reticulum to generate a 63 kDa mature protein. The cleaved N-terminal fragment remains associated with the mature protein and is necessary for its secretion, allowing it to circulate in the blood. The ability of PCSK9 to regulate a diverse group of cell-surface proteins hinted that it might also be able to influence additional membrane proteins that are important in anti-tumour immune responses. Targeting PCSK9 to treat cancer is also attractive because two neutralizing antibodies against it, evolocumab and alirocumab, have already been approved for human clinical use to lower cholesterol levels. (PMID: 30522786, PMID: 22493497)

Notable Publications

Author	Pubmed ID	Journal	Application
Ya-Nan Ou-Yang	37844755	Biochimie	IHC
Haijun Wang	37854863	Oncol Lett	WB, IHC
Meixin Zhang	37791316	JACC Basic Transl Sci	WB, IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

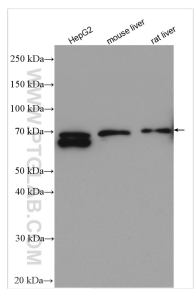
For technical support and original validation data for this product please contact:

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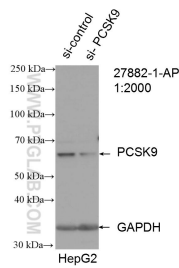
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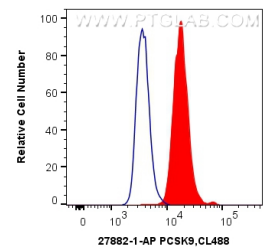
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 27882-1-AP (PCSK9 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



WB result of PCSK9 antibody (27882-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PCSK9 transfected HepG2 cells.



1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Anti-Human PCSK9 (27882-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).