

For Research Use Only

PCSK9 Polyclonal antibody

Catalog Number: 27882-1-AP

Featured Product

10 Publications



Basic Information

Catalog Number:

27882-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

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

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

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

FC (Intra) : HepG2 cells,

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
Wanyun Dang	39769164	Int J Mol Sci	WB
Ying Xu	39282119	PeerJ	IHC
Hongzheng Wang	39241385	Phytomedicine	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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

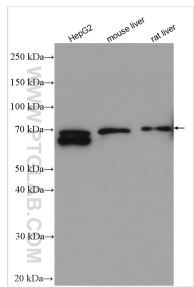
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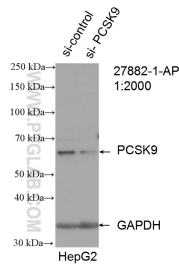
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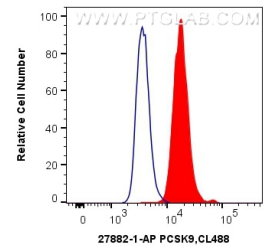
Selected Validation Data



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 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).