For Research Use Only

PCSK9 Polyclonal antibody

Catalog Number:55206-1-AP Featured Product 69 Publications

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Basic Information

Catalog Number:
55206-1-AP

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_174936

GeneID (NCBI):
255738

UNIPROT ID:
Q8NBP7

Full Name:
proprotein convertase subtilisin/kexin type 9

Calculated MW:
74 kDa

Observed MW:
58-62 kDa, 72-78 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:500-1:2000
IHC: 1:250-1:1000

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC, IF, ChIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, hamster

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HepG2 cells, rat brain tissue, L02 cells, 4T1 cells

IHC : human colon cancer 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
Haiyan He	36125039	Food Funct	WB
Chiara Barisione	34576046	Int J Mol Sci	WB,IHC,IF
Dandan Wang	32913121	J Biol Chem	WB

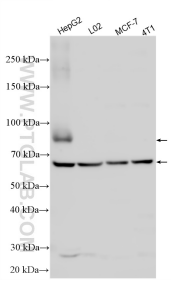
Storage

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

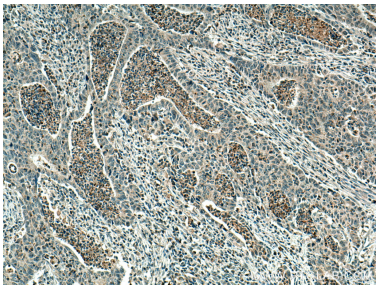
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

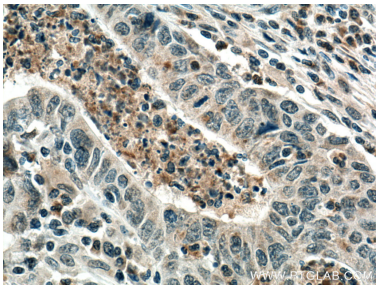
Selected Validation Data



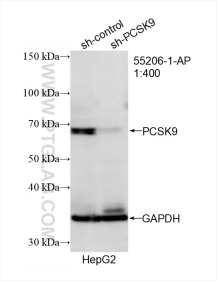
Various lysates were subjected to SDS PAGE followed by western blot with 55206-1-AP (PCSK9 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 55206-1-AP (PCSK9 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 55206-1-AP (PCSK9 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of PCSK9 antibody (55206-1-AP; 1:400; incubated at room temperature for 1.5 hours) with sh-Control and sh-PCSK9 transfected HepG2 cells.