

For Research Use Only

# PCSK9 Polyclonal antibody

Catalog Number: 55206-1-AP

Featured Product

18 Publications



## Basic Information

**Catalog Number:**

55206-1-AP

**Size:**

150ul , Concentration: 313 µg/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_174936

**GeneID (NCBI):**

255738

**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 1:500-1:3000

IHC 1:250-1:1000

## Applications

**Tested Applications:**

IHC, WB, ELISA

**Cited Applications:**

IHC, WB

**Species Specificity:**

human

**Cited Species:**

human

**Positive Controls:**

WB : COLO 320 cells, HepG2 cells, SMMC-7721 cells

IHC : human colon cancer tissue,

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

## 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
Dandan Wang	32913121	J Biol Chem	WB
Shijie Cao	30335889	J Cell Biochem	WB
Lulu He	33209981	Mol Ther Oncolytics	IHC

## Storage

**Storage:**

Store at -20°C.

**Storage Buffer:**

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

Aliquoting is unnecessary for -20°C storage

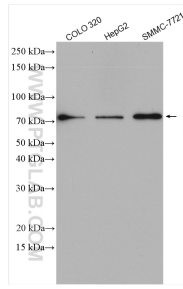
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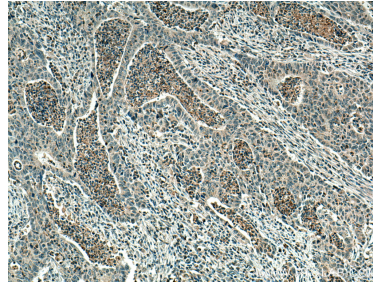
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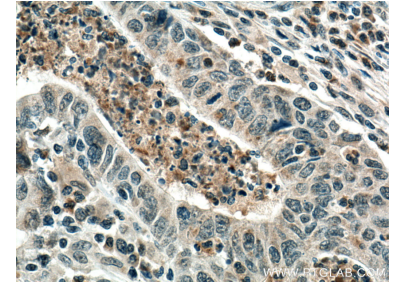
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 55206-1-AP (PCSK9 antibody) at dilution of 1:1500 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).