

Product Name: KO-Validated PCSK9 Mouse Monoclonal Antibody**Catalog #: KVA000068**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:200-1:1,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 74.3kDa

Antigen Information

Gene Name	PCSK9 PCSK9; Proprotein Convertase Subtilisin/Kexin Type 9; NARC-1; FH3; Subtilisin/Kexin-Like Protease PC9; HCHOLA3; NARC1; PC9; Convertase Subtilisin/Kexin Type 9 Preproprotein;
Alternative Names	Hypercholesterolemia, Autosomal Dominant 3; Neural Apoptosis Regulated Convertase 1; Neural Apoptosis-Regulated Convertase 1; Proprotein Convertase 9; EC 3.4.21.111; EC 3.4.21.-; EC 3.4.21; LDLCQ1; FHCL3
Gene ID	255738.0
SwissProt ID	Q8NBP7
Immunogen	Recombinant protein of human PCSK9

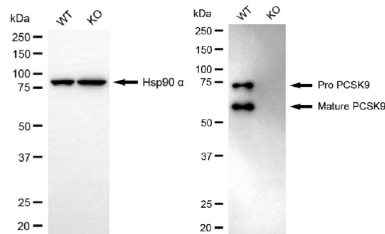
Background

This gene encodes a member of the subtilisin-like proprotein convertase family, which includes proteases that process protein and peptide precursors trafficking through regulated or constitutive branches of the secretory pathway. The encoded protein undergoes an autocatalytic processing event with its prosegment in the ER and is constitutively secreted as an inactive protease into the extracellular matrix and trans-Golgi network. It is expressed in liver, intestine and kidney tissues and escorts specific receptors for lysosomal degradation. It plays a role in cholesterol and fatty acid metabolism. Mutations in this gene have been associated with autosomal dominant familial hypercholesterolemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]

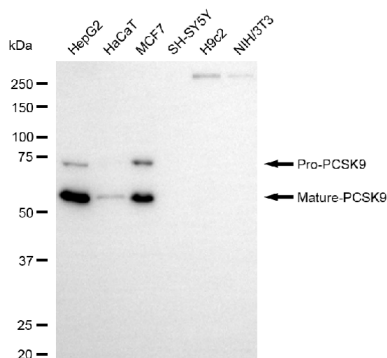
Research Area

Signal Transduction, Cardiovascular, Stem Cells, Cell Biology, Metabolism, Neuroscience

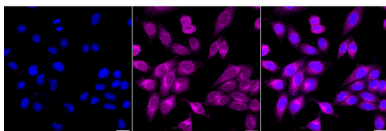
Image Data



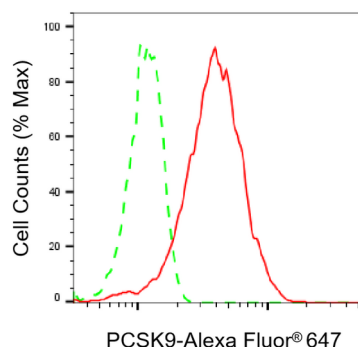
Western blotting analysis using PCSK9 antibody (KVA00068). PCSK9 expression in wild-type (WT) and PCSK9 knockout (KO) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PCSK9 antibody (KVA00068, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using PCSK9 antibody (KVA00068). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PCSK9 antibody (KVA00068, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with PCSK9 antibody (KVA00068, 1:1,000). Nuclei were stained blue with DAPI; PCSK9 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of PCSK9 expression in HepG2 cells using PCSK9 antibody (KVA00068, 1:2,000). Green, isotype control; red, PCSK9.

