

**PCSK7 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14045B**

**Specification**

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**PCSK7 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O16549</a>
Other Accession	<a href="#">NP_004707.2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	86247
Antigen Region	692-721

**PCSK7 Antibody (C-term) - Additional Information**

**Gene ID** 9159

**Other Names**

Proprotein convertase subtilisin/kexin type 7, 3421-, Lymphoma proprotein convertase, Prohormone convertase 7, Proprotein convertase 7, PC7, Proprotein convertase 8, PC8, hPC8, Subtilisin/kexin-like protease PC7, PCSK7, LPC, PC7, PC8, SPC7

**Target/Specificity**

This PCSK7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 692-721 amino acids from the C-terminal region of human PCSK7.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

PCSK7 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**PCSK7 Antibody (C-term) - Protein Information**

**Name** PCSK7

**Synonyms** LPC, PC7, PC8, SPC7

**Function** Serine endoprotease that processes various proproteins by cleavage at paired basic amino acids, recognizing the RXXX[KR]R consensus motif. Likely functions in the constitutive secretory pathway.

**Cellular Location**

Golgi apparatus, trans-Golgi network membrane; Single-pass type I membrane protein  
Note=Seems to be localized intracellularly to the trans Golgi network

**Tissue Location**

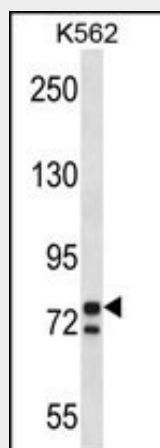
Expressed in spleen, thymus, prostate, testis, ovary, small intestine, colon and peripheral blood leukocyte

**PCSK7 Antibody (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**PCSK7 Antibody (C-term) - Images**



PCSK7 Antibody (C-term) (Cat. #AP14045b) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the PCSK7 antibody detected the PCSK7 protein (arrow).

**PCSK7 Antibody (C-term) - Background**

The protein encoded by this gene belongs to the subtilisin-like proprotein convertase family. The members of this family are proprotein convertases that process latent precursor proteins into their biologically active products. This encoded protein is a calcium-dependent serine endoprotease. It is structurally related to its family members, PACE and PACE4. This

protein is concentrated in the trans-Golgi network, associated with the membranes, and is not secreted. It can process proalbumin and is thought to be responsible for the activation of HIV envelope glycoproteins gp160 and gp140. This gene has been implicated in the transcriptional regulation of housekeeping genes. Multiple alternatively spliced transcripts are described for this gene but their full length nature is not yet known. Downstream of this gene's map location at 11q23-q24, nucleotides that match part of this gene's 3' end are duplicated and inverted. A translocation breakpoint associated with lymphoma occurs between this gene and its inverted counterpart.

#### **PCSK7 Antibody (C-term) - References**

Leonhardt, R.M., et al. J. Immunol. 184(6):2985-2998(2010)  
McColl, B.K., et al. FASEB J. 21(4):1088-1098(2007)  
Bruzzaniti, A., et al. Peptides 23(5):863-875(2002)  
Fugere, M., et al. J. Biol. Chem. 277(10):7648-7656(2002)  
Pearton, D.J., et al. Exp. Dermatol. 10(3):193-203(2001)