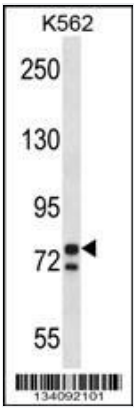
PCSK7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PCSK7, Polyclonal Antibody
Full Product Name	PCSK7, CT (PCSK7, LPC, PC7, PC8, SPC7, Proprotein convertase subtilisin/kexin type 7, Lymphoma proprotein convertase, Prohormone convertase 7, Proprotein convertase 7, Proprotein convertase 8, Subtilisin/kexin-like protease PC7) (FITC)
Product Gene Name	anti-PCSK7 antibody
Product Synonym Names	PCSK7; LPC; PC7; PC8; SPC7; Proprotein convertase subtilisin/kexin type 7; Lymphoma proprotein convertase; Prohormone convertase 7; Proprotein convertase 7; Proprotein convertase 8; Subtilisin/kexin-like protease PC7
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	86,247 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (117075788..117102811, complement). Location: 11q23-q24
OMIM	604872
3D Structure	ModBase 3D Structure for Q16549
Immunogen	PCSK7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 691-721 amino acids from the C-terminal region of human PCSK7.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-PCSK7 antibody	Antibodies; Enzymes; Protease (Proteinase; Peptidase)
Applications Tested/Suitable for anti-PCSK7 antibody	Western Blot (WB), FLISA
Application Notes for anti-PCSK7 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.

Related Product Information for anti-PCSK7 antibody	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.
Product References and Citations for anti-PCSK7 antibody	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).
Other Notes	Small volumes of anti-PCSK7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PCSK7 purchase	MBS6331883 is an antibody targeting PCSK7. Also known as PCSK7, CT (PCSK7, LPC, PC7, PC8, SPC7, Proprotein convertase subtilisin/kexin type 7, Lymphoma proprotein convertase, Prohormone convertase 7, Proprotein convertase 7, Proprotein convertase 8, Subtilisin/kexin-like protease PC7) (FITC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PCSK7 antibody
PCSK7 Antibody (C-term) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the PCSK7 antibody detected the PCSK7 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PCSK7. It may not necessarily be applicable to this product.

NCBI GI #	20336248
NCBI GeneID	9159
NCBI Accession #	NP_004707.2
UniProt Primary Accession #	Q16549
UniProt Secondary Accession #	Q3C1X1; Q53GM4; Q96FK8; Q9UL57; B0YJ60
UniProt Related Accession #	Q16549
GenBank Nucleotide #	NM_004716.2
NCBI Official Full Name	proprotein convertase subtilisin/kexin type 7 preproprotein
NCBI Official Synonym Full Names	proprotein convertase subtilisin/kexin type 7
NCBI Official Symbol	PCSK7

NCBI Official Synonym Symbols	LPC; PC7; PC8; SPC7
UniProt Protein Name	Proprotein convertase subtilisin/kexin type 7
UniProt Synonym Protein Names	Lymphoma proprotein convertase; Prohormone convertase 7; Proprotein convertase 7; PC7; Proprotein convertase 8; PC8; hPC8; Subtilisin/kexin-like protease PC7
Protein Family	Proprotein convertase subtilisin/kexin
UniProt Gene Name	PCSK7
UniProt Synonym Gene Names	LPC; PC7; PC8; SPC7; PC7; PC8; hPC8
UniProt Entry Name	PCSK7_HUMAN
NCBI Protein Information	proprotein convertase subtilisin/kexin type 7; hPC8; prohormone convertase 7; proprotein convertase 7; proprotein convertase 8; prohormone convertase PC7; proprotein convertase PC7; lymphoma proprotein convertase; subtilisin/kexin-like protease PC7
UniProt Comments for PCSK7	Function: Likely to represent a ubiquitous endoprotease activity within constitutive secretory pathways and capable of cleavage at the RXXX[KR]R consensus motif. Catalytic activity: Release of mature proteins from their proproteins by cleavage of Arg-Xaa-Xaa-Xaa-Yaa-Arg-|-Zaa bonds, where Xaa can be any amino acid and Yaa is Arg or Lys. Cofactor: Calcium By similarity. Enzyme regulation: Inhibited by zinc and copper By similarity. Subcellular location: Golgi apparatus › trans-Golgi network membrane; Single-pass type I membrane protein By similarity. Note: Seems to be localized intracellularly to the trans Golgi network By similarity. Tissue specificity: Expressed in spleen, thymus, prostate, testis, ovary, small intestine, colon and peripheral blood leukocyte. Post-translational modification: Cysteine residues in the cytoplasmic tail are probably palmitoylated. Ref.12N-glycosylated. Ref.12 Sequence similarities: Belongs to the peptidase S8 family.Contains 1 homo B/P domain.
Research Articles on PCSK7	**1.** overexpression of PCs, furin and PC5, but not PC7, which are all expressed in SMC, increase PKGI cleavage in a dose-dependent manner
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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