Elabscience®

Rat PCSK9 Antibody Pair Set

Catalog No.	E-KAB-0109	Applications	ELISA	
Synonyms	FH3, HCHOLA3, LDLCQ1, NARC-1, NARC1, PC9			

Kit components & Storage

Title	Specifications	Storage
Rat PCSK9 Capture Antibody	1 vial, 100 µ g	Store at -20° C for one year.
		Avoid freeze / thaw cycles.
Rat PCSK9 Detection Antibody (Biotin)	1 vial, 50 μL	Store at -20°C for one year.
		Avoid freeze / thaw cycles.

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0109)		
		Rat PCSK9 Capture Antibody	Rat PCSK9 Detection Antibody (Biotin)	
Immunogen	Immunogen	Recombinant Rat PCSK9 protein	Recombinant Rat PCSK9 protein	
Information	Swissprot	P59996		
Product details	Reactivity	Rat	Rat	
	Host	Mouse	Rabbit	
	Conjugation	Unconjugated	Biotin	
	Concentration	0.5mg/mL	/	
	Buffer	PBS with 0.04% Proclin 300, 50%	PBS with 0.04% Proclin 300, 1%	
		glycerol, pH 7.4	protective protein, 50% glycerol, pH	
			7.4	
	Purify	Protein A	Protein A	
	Specificity	Detects Rat PCSK9 in ELISAs.		

For Research Use Only

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Applications

Rat PCSK9 Sandwich ELISA Assay:

	Recommended	Reagent	Images
	Concentration/Dilution		
ELISA	0.5-4µg/mL	Rat PCSK9 Capture Antibody	
Capture			
ELISA	1:1000-1:10000	Rat PCSK9 Detection Antibody	Optical Density
Detection		(Biotin)	³ 0.1 0.1 1 1 10 100 1000 Rat PCSK9 concentration(ng/mL)

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

Crucial player in the regulation of plasma cholesterol homeostasis. Binds to low-density lipid receptor family members: low density lipoprotein receptor (LDLR),very low density lipoprotein receptor (VLDLR),apolipoprotein E receptor (LRP1/APOER) and apolipoprotein receptor 2 (LRP8/APOER2),and promotes their degradation in intracellular acidic compartments. Acts via a non-proteolytic mechanism to enhance the degradation of the hepatic LDLR through a clathrin LDLRAP1/ARH-mediated pathway. May prevent the recycling of LDLR from endosomes to the cell surface or direct it to lysosomes for degradation. Can induce ubiquitination of LDLR leading to its subsequent degradation. Inhibits intracellular degradation of APOB via the autophagosome/lysosome pathway in a LDLR-independent manner. Involved in the disposal of non-acetylated intermediates of BACE1 in the early secretory pathway.Inhibits epithelial Na+ channel (ENaC)-mediated Na+ absorption by reducing ENaC surface expression primarily by increasing its proteasomal degradation. Regulates neuronal apoptosis via modulation of LRP8/APOER2 levels and related anti-apoptotic signaling pathways.