

Recombinant Human PCSK1 cell lysate

Cat. No. PCSK1-2249HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human PCSK1 / NEC1 derived in Human Cells. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls
Species	Human
Source	Human Cells
Preparation method	Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Lysis buffer	Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Quality control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Recommended Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube. 2. Re-dissolve the pellet using 200µL pure water and boiled for 2-5 min. 3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Notes: The lysate is ready to load on SDS-PAGE for Western blot application. If dissociating conditions are required, add

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	reducing agent prior to heating.
Stability	Samples are stable for up to twelve months from date of receipt at -80°C
Storage Buffer	50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Storage Instruction	Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

GENE INFORMATION

Gene Name	PCSK1 proprotein convertase subtilisin/kexin type 1 [Homo sapiens]
Official Symbol	PCSK1
Synonyms	PCSK1; proprotein convertase subtilisin/kexin type 1; NEC1; neuroendocrine convertase 1; PC1; PC3; prohormone convertase 1; prohormone convertase 3; proprotein convertase 1; SPC3; NEC 1; BMIQ12;
Gene ID	5122
mRNA Refseq	NM_000439
Protein Refseq	NP_000430
MIM	162150
UniProt ID	P29120

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Chromosome Location	5q15-q21
Pathway	Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; Incretin Synthesis, Secretion, and Inactivation, organism-specific biosystem; Insulin Synthesis and Processing, organism-specific biosystem; Integration of energy metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem;
Function	chaperone binding; endopeptidase activity; insulin binding; peptidase activity; serine-type endopeptidase activity; serine-type endopeptidase activity;

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