

Recombinant Human CSNK1A1 cell lysate

Cat. No. CSNK1A1-617HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CSNK1A1 / CKI-alpha / CK1 derived in Baculovirus-Insect cells. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls
Species	Human
Source	Insect 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

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	SDS-PAGE for Western blot application. If dissociating conditions are required, add 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	CSNK1A1 casein kinase 1, alpha 1 [Homo sapiens]
Official Symbol	CSNK1A1
Synonyms	CSNK1A1; casein kinase 1, alpha 1; casein kinase I isoform alpha; CK1; CK1a; CK1alpha; CK1a; CK1alpha; clock regulator kinase; CKI-alpha; down-regulated in lung cancer; HLCDGP1; PRO2975;
Gene ID	1452
mRNA Refseq	NM_001025105
Protein Refseq	NP_001020276
MIM	600505
UniProt ID	P48729

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Chromosome Location	5q32
Pathway	Beta-catenin phosphorylation cascade, organism-specific biosystem; Canonical Wnt signaling pathway, organism-specific biosystem; Degradation of beta-catenin by the destruction complex, organism-specific biosystem; FoxO family signaling, organism-specific biosystem; Hedgehog signaling events mediated by Gli proteins, organism-specific biosystem; Hedgehog signaling pathway, organism-specific biosystem; Hedgehog signaling pathway, conserved biosystem;
Function	ATP binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; protein serine/threonine kinase activity;

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