

# Human PRKAA1 Knockdown Cell Lysate

**Cat. No.** PRKAA1-278HKCL    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	WB-validated PRKAA1 Knockdown HeLa Cell Lysate
<b>Species</b>	Human
<b>Source</b>	HeLa
<b>Description</b>	<p>The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed.</p>
<b>Form</b>	Cell-Tissue Lysis buffer
<b>Molecular Mass</b>	64 kDa
<b>Notes</b>	<p>Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.</p>
<b>Storage</b>	Store at -20 centigrade for two years.

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<b>Concentration</b>	Lot-specific
<b>Shipping</b>	Blue Ice
<b>Components</b>	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg PRKAA1 KD HeLa cell lysate
<b>Protein Families</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways</b>	Adipocytokine signaling pathway, Hypertrophic cardiomyopathy (HCM), Insulin signaling pathway, mTOR signaling pathway, Regulation of autophagy
<b>Lysate QC</b>	RT-qPCR; Western Blotting (WB)

## GENE INFORMATION

<b>Gene Name</b>	PRKAA1 protein kinase, AMP-activated, alpha 1 catalytic subunit [ Homo sapiens (human) ]
<b>Official Symbol</b>	PRKAA1
<b>Synonyms</b>	PRKAA1; protein kinase, AMP-activated, alpha 1 catalytic subunit; 5-AMP-activated protein kinase catalytic subunit alpha-1; AMPK; alpha; 1; AMPKa1; AMPK alpha 1; AMPK subunit alpha-1; tau-protein kinase PRKAA1; AMP -activate kinase alpha 1 subunit; AMP-activated protein kinase, catalytic, alpha-1; 5-AMP-activated protein kinase, catalytic alpha-1 chain; MGC33776; MGC57364;
<b>Gene ID</b>	5562
<b>mRNA Refseq</b>	NM_006251
<b>Protein Refseq</b>	NP_006242

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<b>MIM</b>	602739
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<b>UniProt ID</b>	Q13131
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