Human PRKAR2A Knockdown Cell Lysate

Cat. No. PRKAR2A-403HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated PRKAR2A Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. The protein encoded by this gene is one of the regulatory subunits. This subunit can be phosphorylated by the activated catalytic subunit. It may interact with various A-kinase anchoring proteins and determine the subcellular localization of cAMP-dependent protein kinase. This subunit has been shown to regulate protein transport from endosomes to the Golgi apparatus and further to the endoplasmic reticulum (ER).
Form	Cell-Tissue Lysis buffer
Molecular Mass	46 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa

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	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.
Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg PRKAR2A KD HeLa cell lysate
Protein Families	Druggable Genome
Protein Pathways	Apoptosis, Insulin signaling pathway
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	PRKAR2A protein kinase, cAMP-dependent, regulatory, type II, alpha [Homo sapiens (human)]
Official Symbol	PRKAR2A
Synonyms	PRKAR2A; protein kinase, cAMP-dependent, regulatory, type II, alpha; PRKAR2; cAMP-dependent protein kinase type II-alpha regulatory subunit; protein kinase A, RII-alpha subunit; cAMP-dependent protein kinase regulatory subunit RII alpha; PKR2; MGC3606;
Gene ID	5576

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mRNA Refseq	NM_004157
Protein Refseq	NP_004148
MIM	176910
UniProt ID	P13861

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