

Recombinant Human PRKAG2 293 Cell Lysate

Cat. No. PRKAG2-2864HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for protein kinase, AMP-activated, gamma 2 non-catalytic subunit (PRKAG2), transcript variant a is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

PRKAG2 protein kinase, AMP-activated, gamma 2 non-catalytic subunit [Homo sapiens]

Official Symbol

PRKAG2

Synonyms

PRKAG2; protein kinase, AMP-activated, gamma 2 non-catalytic subunit; 5-AMP-activated protein kinase subunit gamma-2; AAKG; AAKG2; AMPK gamma2; CMH6; H91620p; WPWS; AMPK subunit gamma-2;

Gene ID

51422

mRNA Refseq

NM_001040633

Protein Refseq

NP_001035723

MIM

602743

UniProt ID

Q9UGJ0

Chromosome Location

7q35-q36

Pathway

AMPK inhibits chREBP transcriptional activation activity, organism-specific biosystem; AMPK signaling, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem;

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Energy Metabolism, organism-specific biosystem; Energy dependent regulation of mTOR by LKB1-AMPK, organism-specific biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem;

Function

ADP binding; AMP binding; AMP-activated protein kinase activity; ATP binding; cAMP-dependent protein kinase inhibitor activity; cAMP-dependent protein kinase regulator activity; nucleotide binding; phosphorylase kinase regulator activity; protein kinase activator activity; protein kinase binding;

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