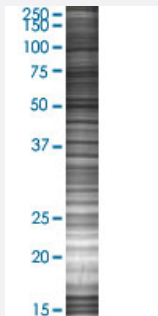


PRKAA1 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00005562-T02

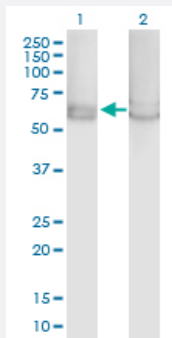
Size 100 uL

Applications



SDS-PAGE Gel

PRKAA1 transfected lysate.



Western Blot

Lane 1: PRKAA1 transfected lysate (65.5 KDa)

Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line 293T

Plasmid pCMV-PRKAA1 full-length

Host Human

Theoretical MW (kDa) 65.5

Quality Control Testing Transient overexpression cell lysate was tested with Anti-PTPRF antibody ([H00005562-B01P](#)) by Western Blots.
SDS-PAGE Gel
PRKAA1 transfected lysate.
Western Blot
Lane 1: PRKAA1 transfected lysate (65.5 KDa)
Lane 2: Non-transfected lysate.

Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — PRKAA1

Entrez GeneID	5562
GeneBank Accession#	BC048980.1
Protein Accession#	AAH48980.1
Gene Name	PRKAA1
Gene Alias	AMPK, AMPK α 1, MGC33776, MGC57364
Gene Description	protein kinase, AMP-activated, alpha 1 catalytic subunit
Omim ID	602739
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	5'-AMP-activated protein kinase, catalytic alpha-1 chain AMP-activate kinase alpha 1 subunit AMP-activated protein kinase, catalytic, alpha-1 AMPK alpha 1

Pathway

- [Adipocytokine signaling pathway](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)

- [Insulin signaling pathway](#)
- [mTOR signaling pathway](#)
- [Regulation of autophagy](#)

Disease

- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Colonic Neoplasms](#)
- [Coronary Artery Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Hypercholesterolemia](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)
- [Rectal Neoplasms](#)