

Product Information

MemDX™ Membrane Protein Human EIF2AK3 (Eukaryotic translation initiation factor 2 alpha kinase 3) for Antibody Discovery

Cat. No.: **MP0594J**

This product is for research use only and is not intended for diagnostic use.

This product is a 122.1 kDa Human EIF2AK3 membrane protein expressed in HEK293T. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

EIF2AK3

Protein Length

Full-length

Protein Class

Druggable Genome, Protein Kinase, Secreted Protein, Transmembrane

Molecular Weight

122.1 kDa

TMD

1

Sequence

MERAISPGLLVRALLLLLLLLGLAARTVAAGRARGLPAPTAEEAFGLGAAAAPTSATRVPAAGAVAAAEV
TVEDAEALPAAAGEQEPRGPEPDDTELPRGRSLVIISTLDGRIAALDPENHGKKQWDLVDVSGSLVSS
SLSKPEVFGNKMIIPSLDGALFQWDRDRESMETVPFTVESLLESSYKFGDDVVLVGGKSLTTYGLSAYSG
KVRYICSALGCRQWDSDEMEQEEDILLQRTQKTVRAVGPRSGNEKWNFVSVGHFELRYIPDMETRAGFIE
STFKPNENTEESKIISDVVEEQEAAIMDIVIKVSVADWKVMAFSKKGGHLEWEYQFCTPIASAWLLKDGKV
IPISLFDDTSYTSNDDVLEDEEDIVEAARGATENS SVYLGM YRGQLYLQSSVRISEKFPSSPKALESVTNE
NAIIP LPTIKWKPLIHSPSRTPVLVGSDEFDKCLSNDFKSHEEYSNGALSILQYPYDNGYYLPYYKRERN
KRSTQITVRFLDNPHYNKNIRKKDPVLLLHWWKEIVATILFCIIATTFIVRRLFHPPHHRQRKESETQCQ
TENKYDSVSGEANDSSWNDIKNSGYISRYLTDFEPIQCLGRGGFGVVFEAKNKVDDCN YAIKRIRLPNRE
LAREKVMREVKALAKLEHPGIVRYFNAWLEAPPEKWQEKMDIWLKDESTDWPLSSPSPMDAPSVKIRRM
DPFSTKEHIEIIAPSPQRSRSFSVGISCDQTSSSESQFSPLFSGMDHEDISESVDAAYNLQDSCLTDCD
VEDGTMDGNDEGHSFELCPSEASPYVRSRERTSSSIVFEDSGCDNASSKEEPKTNRLHIGNHCANKLTAF
KPTSSKSSSEATLSISPPRPTTSLDLTKNTTEKLQPSSPKVYLYIQMQLCRKENLKDWMNGRCTIEERE
RSVCLHIFLQIAEAVEFLHSKGLMHRDLKPSNIFFTMDDVVKVGDFGLVTAMDQDEEEQTVLTPMPAYAR
HTGQVGTKLYMSPEQIHGNSYSHKVDIFSLGLILFELLYPFSTQMERVRTLTDVRNLKFPPLFTQKYPCE
YVMQDMLSPSPMERPEAINIENAVFEDLDFPGKTVLRQRSRSLSSSGTKHSRQSNNSHSPLPSN

Product Description

Expression Systems

HEK293T

Tag

C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

EIF2AK3

Full Name

Eukaryotic translation initiation factor 2 alpha kinase 3

Introduction

The protein encoded by this gene phosphorylates the alpha subunit of eukaryotic translation-initiation factor 2, leading to its inactivation, and thus to a rapid reduction of translational initiation and repression of global protein synthesis. This protein is thought to modulate mitochondrial function. It is a type I membrane protein located in the endoplasmic reticulum (ER), where it is induced by ER stress caused by misfolded proteins. Mutations in this gene are associated with Wolcott-Rallison syndrome.

Alternative Names

PEK; WRS; PERK

Gene ID

[9451](#)

UniProt ID

[Q9NZJ5](#)