

Product datasheet for PH314993

PERK (EIF2AK3) (NM_004836) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	EIF2AK3 MS Standard C13 and N15-labeled recombinant protein (NP_004827)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC214993
Predicted MW:	125.26 kDa
Protein Sequence:	>RC214993 representing NM_004836 Red=Cloning site Green=Tags(s)

MERAISPGLLVRALLLLLLLGLAARTVAAGRARGLPAPTAAAFGLGAAAPTSATRVPAAGAVAAAEV
TVDAEALPAAAGEQEPRGPEPDETELPRGRSLVIIISTLDGRIAALDPENHGKKQWDLVVGSGSLVSS
SLSKPEVFGNKMIIIPSLDGALFQWRDRESMETVPFTVESLLESSYKFGDDVVLVGGKSLTTYGLSAYSG
KVRVYICSAALGCRQWDSDEMEQEEDILLQRTQKTVRAVGPRSGNEKWNFSVGHFELRYIPDMETRAGFIE
STFKPNENTEESKIIISDVEEQEAAMDIVIKVSVADWKVMAFSKKGHLEWEYQFCTPIASAWLLKDGKV
IPIISLFDDTSYTSNDDVLEDEEDIVEAARGATENSYYLGMYRGQLYLQSSVRISEKFPSSPKALESVTNE
NAIIPLPITIKWKPLIHSPSRTPVLVGSDEFDKCLSNDFKFSHEEYSNGALSILQYPYDNGYYLPYYKRERN
KRSTQITVRFLDNPHYNKNIRKDPVLLHWWKEIVATILFCIIATTFIVRRLFHPHQRKESETQCQ
TENKYDSVSGEANDSSWNDIKNSGYISRYLTDPEPIQCLGRGGFVVFEAKNKVDDCNYAIKRIRLPNRE
LAREKVMREVKALAKLEHPGIVRYFNAWLEAPPEKWQEKMDIWLKDESTDWPLSSPSPMDAPSVKIRRM
DPFSTKEHIEIIAPSPQRSRSFVSGISCDQTSSESQFSPLEFSGMDHEDISESVDAAAYNLQDSCLTDCD
VEDGTMDGNDEGHSEFELCPSEASPYVRSRERTSSSIVFEDSGCDNASSKEEPKTNRHLHGNHCANKLTAF
KPTSSKSSSEATLSISPPRPTTSLDLTKNTEKLPSSPKVYLYIQMQLCRKENLKDWMNGRCTIEERE
RSVCLHIFLQIAEAVEFLHSGKLMHRDLKPSNIFFTMDDVVKVGDFGLVTAMDQDEEEQVLTMPAYAR
HTGQVGTCLYMSPEQIHGNSYSHKVDIFSLGLILFELLYPFSTQMERVRTLTDVRNLKFPPLFTQKYPCE
YVMVQDMLSPSPMERPEAINIENAVFEDLDFPGKTVLRQSRSLSSSGTKHSRQSNNSHSPSPSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

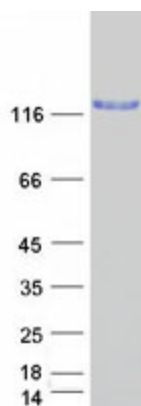
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3



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Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_004827
RefSeq Size:	4511
RefSeq ORF:	3348
Synonyms:	PEK; PERK; WRS
Locus ID:	9451
UniProt ID:	Q9NZJ5 , B3KY45
Cytogenetics:	2p11.2
Summary:	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 malformed proteins. Mutations in this gene are associated with Wolcott-Rallison syndrome. [provided by RefSeq, Sep 2015]
Protein Families:	Druggable Genome, Protein Kinase, Secreted Protein, Transmembrane
Protein Pathways:	Alzheimer's disease

Product images:



Coomassie blue staining of purified EIF2AK3 protein (Cat# [TP314993]). The protein was produced from HEK293T cells transfected with EIF2AK3 cDNA clone (Cat# [RC214993]) using MegaTran 2.0 (Cat# [TT210002]).