

Product datasheet for TP511654

Eif2ak3 (NM_010121) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse eukaryotic translation initiation factor 2 alpha kinase 3 (Eif2ak3), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR211654 representing NM_010121 Red =Cloning site Green =Tags(s)

MERATRPGPRALLLLFLLLGCAAGISAVAPARSLAPASETVFGLGAAAAPTSAAARVPAVATAEVTVED
AEALPAAAGEPESRATEPDDDVELRPRGRSLVIISTLDGRIAALDAENDGKKQWDLVDVSGSLVSSLSK
PEVFGNKMIIPSLDGDLFQWDRDRESMEAVPFTVESLLESSYKFGDDVVLVGGKSLTTYGLSAYSGKLRY
ICSALGCRRWDSDEMEEEEEDILLQRTQKTVRAVGPRSGSEKWNFVGHFELRYIPDMETRAGFIESTFK
PGGNKEDSKIISDVEEQEATMLDVIKVSADWVKVMAFSRKGGRLEWEYQFCTPIASAWLVRDGVIPIS
LFDDTSYTAEEALGDEEDIVEAARGATENSVYLGMYRGQLYLQSSVRVSEKFPTSPKALESVNGENAI
PLPTIKWKPLIHSPSRTPVLVGSDEFDKCLSNDKYSHEEYSNGALSILQYPYDNGYYLPYYKRERNKRST
QITVRFLDSPHYSKNIRKKDPILLHWWKEIFGTILLCIVATTFIVRRLFHPQPHRQRKESETQCQTESK
YDSVSADVSDNSWDMKYSGYVSRYLDFEPIQCMGRGGFGVFEAKNKVDDCNIAIKRIRLPNRELARE
KVMREVKALAKLEHPGIVRYFNAWLETPPEKWQEEMDEIWLKDESTDWPLSSPSPMDAPSVKIRMDPFS
TKEQIEVIAPSPERSRFSVSGISCGQTSSSESQFSPLEFGTDCGDNSDSADAAYNLQDSCLTDCEDVED
GTVDGNDEGHFELCPSEASPYTRSREGTSSSIVFEDSGCGNASSKEEPRGNRLHDGNHYVKNLTDLKCS
SSRSSSEATTLSTSPTRPTTSLDFTKNTVGQLQPSSPKVYLYIQMQLCRKENLKDWMNRRCSLEDREHG
VCLHIFLQIAEAVEFLHSGMLMHRDLKPSNIFFTMDDVVKVGDVGLVTAMDQDEEQVTLTPMPAYATH
GQVGTKLYMSPEQIHGNNYSHKVDIFSLGLILFELLYPFSTLMERVRLTDVRNLKFPLLFTQKYPQEHM
MVQDMLSPSPTERPEATDIIENAIFENLEFPGKTVLRQRSRSMSSSGTKHSRQPSCSYSPLPGN

SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	125.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_034251
Locus ID:	13666
UniProt ID:	E9QQ30 , Q7TQC8
RefSeq Size:	4512
Cytogenetics:	6 C1
RefSeq ORF:	3342
Synonyms:	PE; Pek; Perk
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 a similar gene in human are associated with Wolcott-Rallison syndrome. [provided by RefSeq, Sep 2015]