

Datasheet for ABIN5709451

E2AK2/PKR Protein (AA 2-551) (His-SUMO Tag)





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Purity:

Quantity:	100 μg
Target:	E2AK2/PKR (E2AK2)
Protein Characteristics:	AA 2-551
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This E2AK2/PKR protein is labelled with His-SUMO Tag.
Application:	SDS-PAGE (SDS)

Product Details	
Sequence:	AGDLSAGFFM EELNTYRQKQ GVVLKYQELP NSGPPHDRRF TFQVIIDGRE FPEGEGRSKK
	EAKNAAAKLA VEILNKEKKA VSPLLLTTTN SSEGLSMGNY IGLINRIAQK KRLTVNYEQC
	ASGVHGPEGF HYKCKMGQKE YSIGTGSTKQ EAKQLAAKLA YLQILSEETS VKSDYLSSGS
	FATTCESQSN SLVTSTLASE SSSEGDFSAD TSEINSNSDS LNSSSLLMNG LRNNQRKAKR
	SLAPRFDLPD MKETKYTVDK RFGMDFKEIE LIGSGGFGQV FKAKHRIDGK TYVIKRVKYN
	NEKAEREVKA LAKLDHVNIV HYNGCWDGFD YDPETSDDSL ESSDYDPENS KNSSRSKTKC
	LFIQMEFCDK GTLEQWIEKR RGEKLDKVLA LELFEQITKG VDYIHSKKLI HRDLKPSNIF
	LVDTKQVKIG DFGLVTSLKN DGKRTRSKGT LRYMSPEQIS SQDYGKEVDL YALGLILAEL
	LHVCDTAFET SKFFTDLRDG IISDIFDKKE KTLLQKLLSK KPEDRPNTSE ILRTLTVWKK
	SPEKNERHTC
Purification:	SDS-PAGE

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> 90 %

Restrictions:

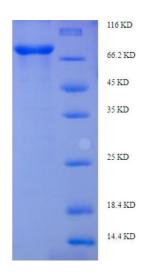
Target Details		
Target:	E2AK2/PKR (E2AK2)	
Alternative Name:	E2AK2 (E2AK2 Products)	
Background:	IFN-induced dsRNA-dependent serine/threonine-protein kinase which plays a key role in the	
	innate immune response to viral infection and is also involved in the regulation of signal	
	transduction, apoptosis, cell proliferation and differentiation. Exerts its antiviral activity on a	
	wide range of DNA and RNA viruses including hepatitis C virus (HCV), hepatitis B virus (HBV),	
	measles virus (MV) and herpes simplex virus 1 (HHV-1). Inhibits viral replication via	
	phosphorylation of the alpha subunit of eukaryotic initiation factor 2 (EIF2S1), this	
	phosphorylation impairs the recycling of EIF2S1 between successive rounds of initiation	
	leading to inhibition of translation which eventually results in shutdown of cellular and viral	
	protein synthesis. Also phosphorylates other substrates including p53/TP53, PPP2R5A, DHX9,	
	ILF3, IRS1 and the HHV-1 viral protein US11. In addition to serine/threonine-protein kinase	
	activity, also has tyrosine-protein kinase activity and phosphorylates CDK1 at 'Tyr-4' upon DNA	
	damage, facilitating its ubiquitination and proteosomal degradation. Either as an adapter	
	protein and/or via its kinase activity, can regulate various signaling pathways (p38 MAP kinase	
	NF-kappa-B and insulin signaling pathways) and transcription factors (JUN, STAT1, STAT3,	
	IRF1, ATF3) involved in the expression of genes encoding proinflammatory cytokines and IFNs	
	Activates the NF-kappa-B pathway via interaction with IKBKB and TRAF family of proteins and	
	activates the p38 MAP kinase pathway via interaction with MAP2K6. Can act as both a positive	
	and negative regulator of the insulin signaling pathway (ISP). Negatively regulates ISP by	
	inducing the inhibitory phosphorylation of insulin receptor substrate 1 (IRS1) at 'Ser-312' and	
	positively regulates ISP via phosphorylation of PPP2R5A which activates FOXO1, which in turn	
	up-regulates the expression of insulin receptor substrate 2 (IRS2). Can regulate NLRP3	
	inflammasome assbly and the activation of NLRP3, NLRP1, AIM2 and NLRC4 inflammasomes	
	Can trigger apoptosis via FADD-mediated activation of CASP8. Plays a role in the regulation of	
	the cytoskeleton by binding to gelsolin (GSN), sequestering the protein in an inactive	
	conformation away from actin	
Molecular Weight:	77.92 kDa	
JniProt:	P19525	
Application Details		
Application Notes:	Optimal working dilution should be determined by the investigator.	

For Research Use only

Handling

Format:	Liquid
Concentration:	0.1-2 mg/mL
Buffer:	20 mM Tris-HCl based buffer, pH 8.0
Storage:	-80 °C,4 °C,-20 °C
Storage Comment:	Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Images



SDS-PAGE

Image 1.