

GLK recombinant protein

GLK, Active

CATALOG # AAA73015	HOST Sf9 insect cells using baculovirus	APPLICATIONS Western Blot
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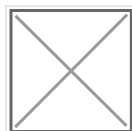
PRODUCT SYNONYMS

GLK; Active; GLK recombinant protein

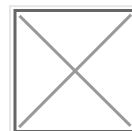
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Sequence Positions	1-380
Sequence Length	4362
Applicable Applications for GLK recombinant protein	WB (Western Blot), Kinase Assay
Species	Human
Tag	GST tag
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for GLK recombinant protein	Description: Recombinant human GLK (1-380) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: GLK is a member of the STE20 family of serine/threonine protein kinases and contains N-terminal catalytic domain and C-terminal regulatory domain. GLK is upstream of the MEKK1 target and is stimulated by UV radiation and TNF-α and can lead to the activation of the JNK signaling pathway. GLK can directly activate PKC-θ during TCR signaling and people with systemic lupus erythematosus show considerable enhanced GLK expression and activation of PKC-θ and the kinase IKK in T cells (1). GLK can act as a pro-apoptotic kinase which orchestrates activation of BAX via the concerted posttranscriptional modulation of PUMA, BAD, and BIM (2).
Product Categories/Family for GLK recombinant protein	Enzymes; Active Kinases

References	1. Chuang, H C. et al: The kinase GLK controls autoimmunity and NF-kappaB signaling by activating the kinase PKC-theta in T cells. Nat Immunol. 2011 Oct 9;12 (11):1113-8. 2. Lam, D. et al: MAP4K3 modulates cell death via the post-transcriptional regulation of BH3-only proteins. Proc Natl Acad Sci U S A. 2009 Jul 21;106 (29):11978-83.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	394025667
NCBI GeneID	8491
NCBI Accession #	NM_003618.3
NCBI GenBank Nucleotide #	NM_003618
UniProt Accession #	Q8IVH8; Q6IQ39; Q8IVH7; Q9UDM5; Q9Y6R5
Molecular Weight	~70 kDa
NCBI Official Full Name	Homo sapiens mitogen-activated protein kinase kinase kinase kinase 3 (MAP4K3), transcript variant 1, mRNA
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase kinase kinase 3
NCBI Official Symbol	MAP4K3
NCBI Official Synonym Symbols	GLK; MEKKK3; MEKKK 3; MAPKKKK3; RAB8IPL1
NCBI Protein Information	mitogen-activated protein kinase kinase kinase kinase 3
UniProt Protein Name	Mitogen-activated protein kinase kinase kinase kinase 3
UniProt Gene Name	MAP4K3
UniProt Synonym Gene Names	RAB8IPL1; GLK; MEK kinase kinase 3; MEKKK 3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.