



Full-Length

ZAK (Human) Recombinant Protein

Catalog # P5667 Size 5 ug

Applications



Result of activity analysis

Result of activity analysis

Specification	
Product Description	Human ZAK (NP_598407.1, 1 a.a 455 a.a.) full-length recombinant protein with GST tag expresse d in baculovirus infected Sf21 cells.
Host	insect
Theoretical MW (kDa)	79
Form	Liquid
Preparation Method	Baculovirus infected insect cell (Sf21) expression system
Purification	Glutathione sepharose chromatography
Purity	67 % by SDS-PAGE/CBB staining

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🖗 Abnova	Product Information
Activity	The activity was determined by ELISA. The enzyme was incubated with GST-fused substrate protein, and after stopping kinase reaction by EDTA, the reaction solution was transferred into glutathione- c oated plate. Phosphorylation was detected by anti-phospho antibody and HRP-labeled anti-rabbit lg G. Substrate: MAP2K7 [inactive mutant]. ATP: 100 uM.
Quality Control Testing	Loading 1 ug protein in SDS-PAGE
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.05% Brij35, 1 mM DTT, 10% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — ZAK	
Entrez GenelD	<u>51776</u>
Protein Accession#	<u>NP_598407.1</u>
Gene Name	ZAK
Gene Alias	AZK, MLK7, MLT, MLTK, MRK, mlklak
Gene Description	sterile alpha motif and leucine zipper containing kinase AZK
Omim ID	<u>609479</u>
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the MAPKKK family of signal transduction molecules and encodes a pr otein with an N-terminal kinase catalytic domain, followed by a leucine zipper motif and a sterile-al pha motif (SAM). This magnesium-binding protein forms homodimers and is located in the cytopl asm. The protein mediates gamma radiation signaling leading to cell cycle arrest and activity of th is protein plays a role in cell cycle checkpoint regulation in cells. The protein also has pro-apoptoti c activity. Alternate transcriptional splice variants, encoding different isoforms, have been charact erized. [provided by RefSeq



Product Information

Other Designations

MLK-like mitogen-activated protein triple kinase|MLK-related kinase|cervical cancer suppressor gene 4 protein|leucine zipper- and sterile alpha motif-containing kinase|mitogen-activated protein kinase kinase kinase MLT|mixed lineage kinase 7|mixed lineage

Pathway

- MAPK signaling pathway
- Tight junction

Disease

- <u>Kidney Failure</u>
- <u>Tobacco Use Disorder</u>