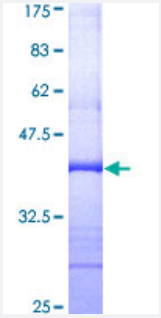
ZAK (Human) Recombinant Protein (Q01)

Catalog # H00051776-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ZAK partial ORF (AAH01401, 1 a.a. - 120 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MSSLGASFVQIKFDDLQFFENCGGGSFGSVYRAKWISQDKEVAVKKLLKIEKEAEILSVLSHRNIIQFYGVILEPPNYGIVTEYASLGSLYDYINSNRSEEMDMDHIMTWATDVAKGMHY
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	38.83
Interspecies Antigen Sequence	Mouse (92)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ZAK

Entrez GeneID	51776
GeneBank Accession#	BC001401
Protein Accession#	AAH01401
Gene Name	ZAK
Gene Alias	AZK, MLK7, MLT, MLTK, MRK, mlklak
Gene Description	sterile alpha motif and leucine zipper containing kinase AZK
Omim ID	609479
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the MAPKKK family of signal transduction molecules and encodes a protein with an N-terminal kinase catalytic domain, followed by a leucine zipper motif and a sterile-alpha motif (SAM). This magnesium-binding protein forms homodimers and is located in the cytoplasm. The protein mediates gamma radiation signaling leading to cell cycle arrest and activity of this protein plays a role in cell cycle checkpoint regulation in cells. The protein also has pro-apoptotic activity. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq
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

- Kidney Failure
- Tobacco Use Disorder