

## Product datasheet for TP300069

### ZAK (MAP3K20) (NM\_133646) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human sterile alpha motif and leucine zipper containing kinase AZK (ZAK), transcript variant 2, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200069 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MSSLGASFVQIKFDDLQFFENC GGGSFGSVYRAKWISQDKEVAVKLLKIEKEAEILSVLSHRNIIQFYG  
VILEPPNYGIVTEYASLGSLYDYINSNRSEEMDMDHIMTWATDVAKGMHYLHMEAPVKVIHRDLKSRNVV  
IAADGVLKICDFGASRFHNHTTHMSLVGTFPWMAPEVIQSLPVSETCDTYSYGVVLWEMLTREVPFKGLE  
GLQVAWLVEKNERLTIPSSCPRSFAELLHCWEADAKKRPSFKQIISILESMSNDTSLPDKCNSFLHNK  
AEWRCEIATLERLKKLERDLSFKEQELKERERRLKMWEQKLTEQSNTPLLLPLAARMSEESYFESKTEE  
SNSAEMSCQITATSNGEGHGMNPSLQAMMLMGFGDIFSMNKAGAVMHSGMQINMQAKQNSSKTTSK  
RRGK  
KVNMALGFSDFDLSEGDDDDDDGEEEDNDMDNSE

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

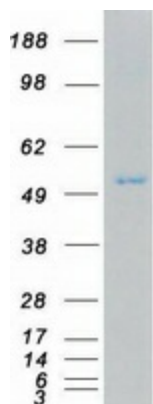
Tag:	C-Myc/DDK
Predicted MW:	51.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_598407</a>
<b>Locus ID:</b>	51776
<b>UniProt ID:</b>	<a href="#">Q9NYL2</a>
<b>RefSeq Size:</b>	7194
<b>Cytogenetics:</b>	2q31.1
<b>RefSeq ORF:</b>	1365
<b>Synonyms:</b>	AZK; CNM6; MLK7; mlklak; MLT; MLTK; MLTKalpha; MLTKbeta; MRK; pk; SFMMP; ZAK
<b>Summary:</b>	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, Jul 2008]
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	MAPK signaling pathway, Tight junction

### Product images:



Coomassie blue staining of purified MAP3K20 protein (Cat# TP300069). The protein was produced from HEK293T cells transfected with MAP3K20 cDNA clone (Cat# [RC200069]) using MegaTran 2.0 (Cat# [TT210002]).