

## Product datasheet for **TP300069L**

### **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, 1 mg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA** >RC200069 protein sequence

**Clone or AA** Red=Cloning site Green=Tags(s)

**Sequence:**

MSSLGASFVQIKFDDLQFFENC GGGSGVYRAKWISQDKEVAVKLLKIEKEAEILSVLSHRNIIQFYG  
VILEPPNYGIVTEYASLGSLDYINSNRSEEMDMDHIMTWATDVAKGMHYLHMEAPVKVIHRDLKSRNVV  
IAADGVLKICDFGASRFHNHTTHMSLVGTFPWMAPEVIQSLPVSETCDTYSYGVLWEMLTREVPFKGLG  
GLQVAWLVEKNERLTIPSSCPRSFAELLHQCWEADAKKRPSFKQIISILESMSNDTSLPDKCNSFLHMK  
AEWRCEIEATLERLKKLERDLSFKEQELKERERRLKMWEQKLTEQSNTPLLLPLAARMSEESYFESKTEE  
SNSAEMSCQITATSN GEGHGMNPSLQAMMLMGFGDIFSMNKAGAVMHSGMQINMQAKQNSSKTTSKRRGK  
KVNMALGFSDFDLSEGD DDDDDDDGEEEDNDMDNSE

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.

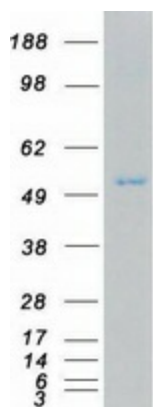
**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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|                   |   |
|-------------------|---|
| RefSeq:           | <a href="#">NP_598407</a>   |
| Locus ID:         | 51776   |
| UniProt ID:       | <a href="#">Q9NYL2</a> , <a href="#">D4Q8H0</a>   |
| RefSeq Size:      | 7194  |
| Cytogenetics:     | 2q31.1  |
| RefSeq ORF:       | 1365  |
| Synonyms:         | AZK; CNM6; MLK7; mlklak; MLT; MLTK; MLTKalpha; MLTKbeta; MRK; pk; SFMMP; ZAK  |
| 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, Jul 2008] |
| Protein Families: | Druggable Genome, Protein Kinase  |
| Protein Pathways: | 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]).