

Recombinant Human MAP3K20 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MAP3K20-3160H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ZAK MS Standard C13 and N15-labeled recombinant protein (NP_598407) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	51.6 kDa
AA Sequence	MSSLGASFVQIKFDDLQFFENC GGGSFGSVYRAKWISQDKEVAVKKLLKIEKEAEILS VLSHRNIIQFYGVILEPPNYGIVTEYASLGSLYDYINSNRSEEMDMDHIMTWATDVAK GMHYLHMEAPVKVIHRDLKSRNVVIAADGVLKICDFGASRFHNHTTHMSLVGTFPW MAPEVIQSLPVSETCDTYSYGVLWLEMLTREVPFKGLEGLQVAWLVEKNERLTIPS SCPRSF AELLHQCWEADAKKRPSFKQIISILESMSNDTSLPDKCNSFLHNKA EWRCE

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IEATLERLKKLERDLSFKEQELKERERRRLKMWEQKLTEQSNTPLLLPLAARMSEESY
FESKTEESNSAEMSCQITATSNGEHGMNPSLQAMMLMGFGDIFSMNKAGAVMHS
GMQINMQAKQNSSKTTSKRRGKKVNMALGFSDFDLSEGDDDDDDGEEEDNDMD
NSETRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name MAP3K20 mitogen-activated protein kinase kinase kinase 20 [Homo sapiens (human)]

Official Symbol MAP3K20

Synonyms MAP3K20; mitogen-activated protein kinase kinase kinase 20; pk; AZK; MLT; MRK; ZAK; CNM6; MLK7; MLTK; SFMMP; mlklak; MLTKbeta; MLTKalpha; mitogen-activated protein kinase kinase kinase 20; HCCS-4; MLK-like mitogen-activated protein triple kinase; ZAK1 homolog, leucine zipper and sterile-alpha motif kinase; human cervical cancer suppressor gene 4 protein; mitogen-activated protein kinase kinase kinase MLT; mixed lineage kinase 7; mixed lineage kinase with a leucine zipper and a sterile alpha motif; mixed lineage kinase-related kinase MRK-beta; sterile alpha motif and leucine zipper containing kinase AZK; EC 2.7.11.25

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Gene ID	51776
mRNA Refseq	NM_133646
Protein Refseq	NP_598407
MIM	609479
UniProt ID	Q9NYL2
SDS-PAGE	