

# Anti-ZAK Antibody

Rabbit polyclonal antibody to ZAK

Catalog # AP60939

## Product Information

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Application	WB
Primary Accession	<a href="#">Q9NYL2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	91155

## Additional Information

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Gene ID	51776
Other Names	MLTK; Mitogen-activated protein kinase kinase kinase MLT; Human cervical cancer suppressor gene 4 protein; HCCS-4; Leucine zipper- and sterile alpha motif-containing kinase; MLK-like mitogen-activated protein triple kinase; Mixed lineage kinase-related kinase; MLK-related kinase; MRK; Sterile alpha motif- and leucine zipper-containing kinase AZK
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ZAK. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

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Name	MAP3K20 ( <a href="#">HGNC:17797</a> )
Function	Stress-activated component of a protein kinase signal transduction cascade that promotes programmed cell death in response to various stress, such as ribosomal stress, osmotic shock and ionizing radiation (PubMed: <a href="#">10924358</a> , PubMed: <a href="#">11836244</a> , PubMed: <a href="#">12220515</a> , PubMed: <a href="#">14521931</a> , PubMed: <a href="#">15350844</a> , PubMed: <a href="#">15737997</a> , PubMed: <a href="#">18331592</a> , PubMed: <a href="#">20559024</a> , PubMed: <a href="#">26999302</a> , PubMed: <a href="#">32289254</a> , PubMed: <a href="#">32610081</a> , PubMed: <a href="#">35857590</a> ). Acts by catalyzing phosphorylation of MAP kinase kinases, leading to activation of the JNK (MAPK8/JNK1, MAPK9/JNK2 and/or MAPK10/JNK3) and MAP kinase p38 (MAPK11, MAPK12, MAPK13 and/or MAPK14) pathways (PubMed: <a href="#">11042189</a> , PubMed: <a href="#">11836244</a> , PubMed: <a href="#">12220515</a> , PubMed: <a href="#">14521931</a> , PubMed: <a href="#">15172994</a> ,

PubMed:[15737997](#), PubMed:[32289254](#), PubMed:[32610081](#), PubMed:[35857590](#)). Activates JNK through phosphorylation of MAP2K4/MKK4 and MAP2K7/MKK7, and MAP kinase p38 gamma (MAPK12) via phosphorylation of MAP2K3/MKK3 and MAP2K6/MKK6 (PubMed:[11836244](#), PubMed:[12220515](#)). Involved in stress associated with adrenergic stimulation: contributes to cardiac decompensation during periods of acute cardiac stress (PubMed:[15350844](#), PubMed:[21224381](#), PubMed:[27859413](#)). May be involved in regulation of S and G2 cell cycle checkpoint by mediating phosphorylation of CHEK2 (PubMed:[15342622](#)).

**Cellular Location**

Cytoplasm. Nucleus. Note=Translocates to the nucleus upon ultraviolet B irradiation.

**Tissue Location**

Ubiquitously expressed. Isoform ZAKbeta is the predominant form in all tissues examined, except for liver, in which isoform ZAKalpha is more highly expressed

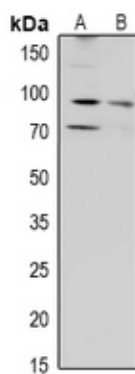
## Background

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KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ZAK. The exact sequence is proprietary.

## Images

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Western blot analysis of ZAK expression in HEK293T (A), HCT116 (B) whole cell lysates.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.