

Anti-ZAK Antibody
Rabbit polyclonal antibody to ZAK
Catalog # AP60939**Specification**

Anti-ZAK Antibody - Product Information

Application	WB
Primary Accession	O9NYL2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	91155

Anti-ZAK Antibody - Additional Information**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

Anti-ZAK Antibody - Protein Information**Name** MAP3K20 ([HGNC:17797](#))**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: [10924358](http://www.uniprot.org/citations/10924358) target="_blank">10924358, PubMed: [11836244](http://www.uniprot.org/citations/11836244) target="_blank">11836244, PubMed: [12220515](http://www.uniprot.org/citations/12220515) target="_blank">12220515, PubMed: [14521931](http://www.uniprot.org/citations/14521931) target="_blank">14521931)

target="_blank">14521931, PubMed:15350844, PubMed:15737997, PubMed:18331592, PubMed:20559024, PubMed:26999302, PubMed:32289254, PubMed:32610081, PubMed:35857590). 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:11042189, PubMed:11836244, PubMed:12220515, PubMed:14521931, PubMed:15172994, 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

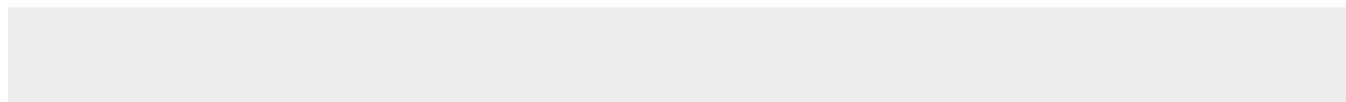
Ubiquitously expressed. Isoform ZAKbeta is the predominant form in all tissues examined, except for liver, in which isoform ZAKalpha is more highly expressed

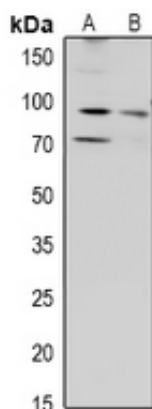
Anti-ZAK Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-ZAK Antibody - Images





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

Anti-ZAK Antibody - Background

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