ARG59525
anti-ZAK antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ZAK
Tested Reactivity	Ms, Rat
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ZAK
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 100-312 of Human ZAK (NP_598407.1).
Conjugation	Un-conjugated
Alternate Names	AZK; MLK-related kinase; mlklak; EC 2.7.11.25; MLK7; MLK-like mitogen-activated protein triple kinase; MLTK; Human cervical cancer suppressor gene 4 protein; HCCS-4; MLT; MRK; Mitogen-activated protein kinase kinase kinase MLT; pk; Sterile alpha motif- and leucine zipper-containing kinase AZK; Leucine zipper- and sterile alpha motif-containing kinase; Mixed lineage kinase-related kinase

Application Instructions

Application table

Application	Dilution
ICC/IF	1:50 - 1:200
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Mouse heart and Rat heart
Observed Size	105 kDa

Properties

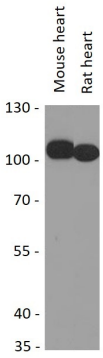
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	ZAK
Gene Full Name	sterile alpha motif and leucine zipper containing kinase AZK
Background	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]
Function	Stress-activated component of a protein kinase signal transduction cascade. Regulates the JNK and p38 pathways. Pro-apoptotic. Role in regulation of S and G2 cell cycle checkpoint by direct phosphorylation of CHEK2. Isoform 1, but not isoform 2, causes cell shrinkage and disruption of actin stress fibers. Isoform 1 may have role in neoplastic cell transformation and cancer development. Isoform 1, but not isoform 2, phosphorylates histone H3 at 'Ser-28'. [UniProt]
Calculated Mw	91 kDa
Cellular Localization	Cytoplasm. Nucleus. Note=Translocates to the nucleus upon ultraviolet B irradiation. [UniProt]

Images



ARG59525 anti-ZAK antibody WB image

Western blot: 25 µg of Mouse heart and Rat heart lysates stained with ARG59525 anti-ZAK antibody at 1:3000 dilution.