

Polyclonal Antibody to ZAK (C-term) - Purified

Alternate names:	"Sterile-alpha motif and leucine zipper containing kinase AZK, Mixed lineage kinase-related kinase MRK-alpha"
Catalog No.:	AP14648PU-N
Quantity:	0.1 mg
Concentration:	0.25 mg/ml
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.
Host / Isotype:	Rabbit / Ig
Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human ZAK.
Format:	State: Liquid purified Ig Purification: Protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS Buffer System: PBS with 0.09% (W/V) sodium azide
Applications:	ELISA: 1/1,000. Immunohistochemistry: 1/50 - 1/100. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts to ZAK. Species: Human. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
Caution:	This product is for research use only. Not for use in diagnostic or therapeutic procedures.
General Readings:	1. Blume-Jensen P, et al. Nature 2001. 411: 355. 2. Cantrell D, J. Cell Sci. 2001. 114: 1439. 3. Jhiang S Oncogene 2000. 19: 5590. 4. Manning G, et al. Science 2002. 298: 1912. 5. Moller, D, et al. Am. J. Physiol. 1994. 266: C351-C359. 6. Robertson, S. et al. Trends Genet. 2000. 16: 368.

7. Robinson D, et al. Oncogene 2000. 19: 5548.
8. Van der Ven, P, et al. Hum. Molec. Genet. 1993. 2: 1889.
9. Vanhaesebroeck, B, et al. Biochem. J. 2000. 346: 561.
10. Van Weering D, et al. Recent Results Cancer Res. 1998. 154: 271.

Pictures:

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.

