

Polyclonal Antibody to Human ZIP-Kinase (IN)

Alternate names:	DAP-kinase 3, DAP-like kinase, DLK, Death-associated protein kinase 3, ZIP-kinase
Catalog No.:	SP6269P
Quantity:	50 µg
Concentration:	0.5 mg/ml
Host:	Rabbit
Immunogen:	Rabbit anti-ZIP kinase (IN) polyclonal antibody was raised against a synthetic peptide corresponding to amino acids 279 to 298 of human origin (1). Peptide available as SP6269CP.
Applications:	Western blot: 1/1000. Jurkat or HeLa whole cell lysate can be used as positive control and a 52 kDa immunoreactive band should be detected. Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises ZIP kinase in Western blots, detecting a band of 52kD. Apoptosis is mediated by death domain containing adapter molecules and a caspase family of proteases. Certain serine/threonine protein kinases, such as ASK-1 and RIP, are mediators of apoptosis. A novel serine/threonine kinase that mediates apoptosis was recently identified and designated ZIP kinase (1). ZIP kinase contains an N-terminal kinase domain and a C-terminal leucine zipper structure and binds to ATF4 that is a member of ATF/CREB family. ZIP kinase has high sequence homology to DAP kinase (death-associated protein kinase), which is a mediator of apoptosis induced by gamma interferon. Overexpression of ZIP kinase induces apoptosis. ZIP and DAP kinases represent a novel kinase family, which mediates apoptosis through their catalytic activities. The messenger RNA was ubiquitously expressed in various tissues (1).
Storage:	Store the antibody at 4-8°C for one month or at -20°C for longer. This product should be stored undiluted. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Kawai, T. et al. (1998). ZIP kinase, a novel serine/threonine kin