

ZIP kinase Antibody

ZIP kinase (IN): Death-associated protein kinase 3, DAP kinase 3, DAP-like kinase

CATALOG NO.: 2067

BACKGROUND:

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).

SOURCE:

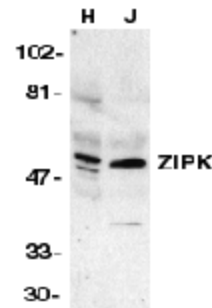
Rabbit polyclonal ZIP kinase antibody was raised against a peptide corresponding to amino acids near the center of human ZIP kinase (Genbank accession no. BAA81746).

APPLICATION:

ZIP kinase antibody can be used for detection of ZIP kinase by Western blot at 0.5 - 1 µg/ml. (Optimal dilution should be determined by user.) Jurkat or HeLa whole cell lysate can be used as positive control and a 52 kDa band should be detected. ZIP kinase antibody has no cross response to DAP kinase. ZIP kinase antibody is human, mouse, and rat reactive. **For research use only.**

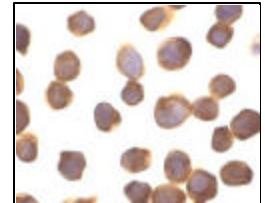
STORAGE:

ZIP kinase antibody is supplied as immunoaffinity chromatography purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of ZIP kinase in HeLa (H) and Jurkat (J) whole cell lysates with ZIP kinase antibody at 1 µg/ml.

Immunocytochemistry of ZIP kinase in Jurkat cells with ZIP kinase antibody at 10 µg/ml.



RELATED PRODUCTS:

Blocking peptide, Catalog No. **2067P**.
HeLa Lysate, Catalog No. **1201**.
ASK1 Antibody (CT), Catalog No. **1151**.
ASK1 Antibody (NT), Catalog No. **3679**.

REFERENCES:

1. Kawai T, Matsumoto M, Takeda K, et al. ZIP kinase, a novel serine/threonine kinase which mediates apoptosis. *Mol. Cell. Biol.* 1998; 18:1642-51.
(RD0306)