

AP45671PU-N

Polyclonal Antibody to AKTIP / FTS - Aff - Purified

Alternate names:

AKT-interacting protein, FT1, Fused toes protein homolog

Quantity:

50 µg

Background:

AKTIP is the component of the FTS/Hook/FHIP complex (FHF complex). The FHF complex may function to promote vesicle trafficking and/or fusion via the homotypic vesicular protein sorting complex (the HOPS complex). AKTIP regulates apoptosis by enhancing phosphorylation and activation of AKT1. AKTIP increases release of TNFSF6 via the AKT1/GSK3B/NFATC1 signaling cascade. The mouse homolog of this gene produces fused toes and thymic hyperplasia in heterozygous mutant animals while homozygous mutants die in early development. This gene may play a role in apoptosis as these morphological abnormalities are caused by altered patterns of programmed cell death. The protein encoded by this gene is similar to the ubiquitin ligase domain of other ubiquitin-conjugating enzymes but lacks the conserved cysteine residue that enables those enzymes to conjugate ubiquitin to the target protein. This protein interacts directly with serine/threonine kinase protein kinase B (PKB)/Akt and modulates PKB activity by enhancing the phosphorylation of PKB's regulatory sites. Alternative splicing results in two transcript variants encoding the same protein.

Uniprot ID:

[Q9H8T0](#)

NCBI:

[NP_001012398](#)

GeneID:

[64400](#)

Host:

Rabbit

Immunogen:

Synthetic peptide directed towards the middle region of human AKTIP

AA Sequence:

NPSVHDEAREKMLTQKKPEEQHNKSVHVAGLSWVKPGSVQPFSSKEEKTVA

Format:

State: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Purification: Purified using peptide immunoaffinity column

Applications:

Western blotting (0.2 - 1.0 µg/ml)

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Species Reactivity:

Tested: Human

Expected from sequence similarity: Mouse, Rat, Chicken, Dog, African clawed frog, Zebrafish

Storage:

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

"Regulation of apoptosis by the Ft1 protein, a new modulator of protein kinase B/Akt."

Remy I., Michnick S.W. Mol. Cell. Biol. 24:1493-1504(2004)

"An FTS/Hook/p107(FHIP) complex interacts with and promotes endosomal clustering

by the homotypic vacuolar protein sorting complex." Xu L., Sowa M.E., Chen J., Li X., Gygi S.P., Harper J.W. Mol. Biol. Cell 19:5059-5071(2008)

Pictures:

WB Suggested Anti-AKTIP Antibody
Titration: 0.2-1 ug/ml; ELISA Titer:
1:1562500; Positive Control: Human
Muscle

