

FTS Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP55097

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q9H8T0
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33128
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FTS/AKTIP
Epitope Specificity	201-292/292
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Cell membrane.
SIMILARITY	Belongs to the ubiquitin-conjugating enzyme family. FTS subfamily.
SUBUNIT	Component of the FTS/Hook/FHIP complex (FHF complex), composed of AKTIP/FTS, FAM160A2, and one or more members of the Hook family of proteins HOOK1, HOOK2, and HOOK3. May interact directly with HOOK1, HOOK2 and HOOK3. The FHF complex associates with the homotypic vesicular sorting complex (the HOPS complex). Also interacts with AKT1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Fused toes protein homolog (FTS), also known as AKT-interacting protein (AKTIP) and Ft1, is a 292 amino acid protein that localizes to the cytoplasm and the cell membrane. A member of the ubiquitin-conjugating enzyme family, FTS binds directly to AKT1 to regulate apoptosis in a cell population. AKT1 is a protein that plays a critical role in a number of cellular responses, such as cell growth, protein synthesis, and antiapoptotic signaling. The interaction of FTS and AKT1 enhances the phosphorylation and activation of AKT1, which, through an AKT1/GSK-3 β /NFATc1 signaling cascade, results in the increased production of the proapoptotic hormone Fas ligand and thus an increase in apoptosis.

Additional Information

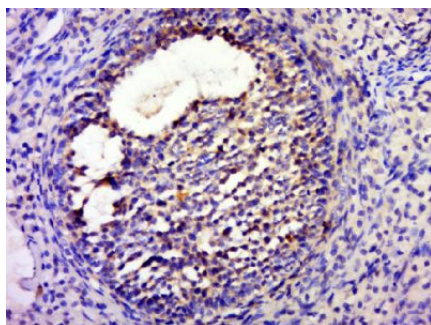
Gene ID	64400
Other Names	AKT-interacting protein, Ft1, Fused toes protein homolog, AKTIP, FTS
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	AKTIP (HGNC:16710)
Function	Component of the FTS/Hook/FHIP complex (FHF complex) (PubMed: 32073997). The FHF complex may function to promote vesicle trafficking and/or fusion via the homotypic vesicular protein sorting complex (the HOPS complex). Regulates apoptosis by enhancing phosphorylation and activation of AKT1. Increases release of TNFSF6 via the AKT1/GSK3B/NFATC1 signaling cascade. FHF complex promotes the distribution of AP-4 complex to the perinuclear area of the cell (PubMed: 32073997).
Cellular Location	Cytoplasm. Cell membrane; Peripheral membrane protein

Images



Paraformaldehyde-fixed, paraffin embedded (rat ovary); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FTS) Polyclonal Antibody, Unconjugated (AP55097) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.