

**FTS Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP55097****Specification****FTS Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">Q9H8T0</a>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FTS/AKTIP
Epitope Specificity	201-292/292
Isotype	IgG
<b>Purity</b>	
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 $\beta$ /NFATc1 signaling cascade, results in the increased production of the proapoptotic hormone Fas ligand and thus an increase in apoptosis.

**FTS Polyclonal Antibody - Additional Information**

**Gene ID** 64400

**Other Names**

AKT-interacting protein, Ft1, Fused toes protein homolog, AKTIP, FTS

**Dilution**

<span class = "dilution\_WB">WB~~1:1000</span><br \><span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class = "dilution\_IHC-F">IHC-F~~N/A</span><br \><span class = "dilution\_IF">IF~~1:50~200</span><br \><span class = "dilution\_ICC">ICC~~N/A</span><br \><span class = "dilution\_E">E~~N/A</span>

**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.

**FTS Polyclonal Antibody - Protein Information**

**Name** AKTIP ([HGNC:16710](#))

**Function**

Component of the FTS/Hook/FHIP complex (FHF complex) (PubMed:<a href="http://www.uniprot.org/citations/32073997" target="\_blank">32073997</a>). 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:<a href="http://www.uniprot.org/citations/32073997" target="\_blank">32073997</a>).

**Cellular Location**

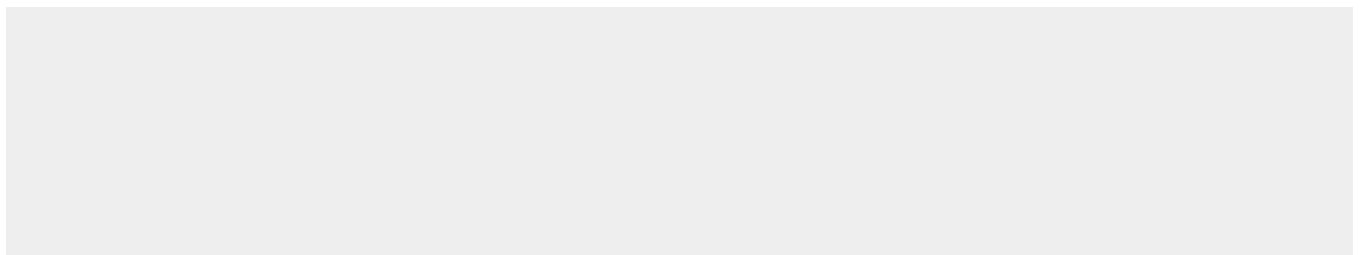
Cytoplasm. Cell membrane; Peripheral membrane protein

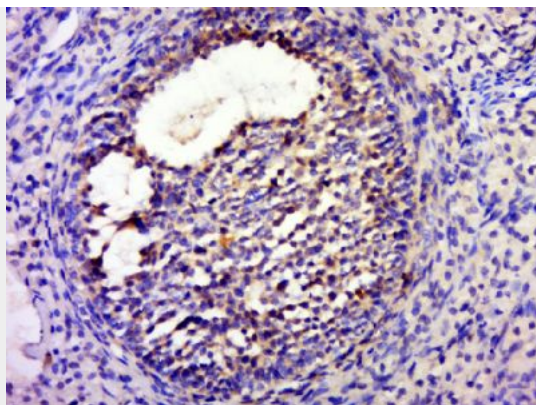
**FTS Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**FTS Polyclonal Antibody - 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 (bs-13223R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.