

FAM107A Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP58428

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	O95990
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	17455

Additional Information

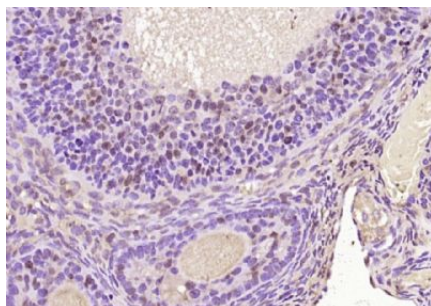
Gene ID	11170
Other Names	Actin-associated protein FAM107A, Down-regulated in renal cell carcinoma 1, Protein TU3A, FAM107A (HGNC:30827)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -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	FAM107A (HGNC:30827)
Function	<p>Stress-inducible actin-binding protein that plays a role in synaptic and cognitive functions by modulating actin filamentous (F- actin) dynamics. Mediates polymerization of globular actin to F-actin. Also binds to, stabilizes and bundles F-actin. Involved in synaptic function by regulating neurite outgrowth in an actin-dependent manner and for the acquisition of hippocampus-dependent cognitive function, such as learning and long-term memory (By similarity). Plays a role in the actin and microtubule cytoskeleton organization; negatively regulates focal adhesion (FA) assembly promoting malignant glial cell migration in an actin-, microtubule- and MAP1A-dependent manner (PubMed:20543869). Also involved in neuroblastoma G1/S phase cell cycle progression and cell proliferation inhibition by stimulating ubiquitination of NF-kappa-B subunit RELA and NF-kappa-B degradation in a COMMD1- and actin-dependent manner (PubMed:10564580, PubMed:28604741). May play a role in tumor development (PubMed:10564580).</p>

Cellular Location	Nucleus. Cytoplasm, cytoskeleton, stress fiber. Cell junction, focal adhesion. Cell projection, ruffle membrane. Synapse {ECO:0000250 UniProtKB:Q78TU8}. Note=Colocalizes with F-actin and COMMD1 in the nucleus (PubMed:28604741). Colocalizes with MAP1A along actin stress fibers and membrane ruffles (PubMed:20543869)
Tissue Location	Widely expressed (PubMed:10564580). Expressed in neurons (PubMed:20543869). Expressed in malignant glial tumors (PubMed:20543869). Expression is reduced or absent in a number of cancer cell lines (PubMed:10564580).

Images



Paraformaldehyde-fixed, paraffin embedded (rat ovary tissue); 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 (FAM107A) Polyclonal Antibody, Unconjugated (AP58428) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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