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FAM92A1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5171c

Product Information

Application	WB, IHC-P, E
Primary Accession	A1XBS5
Other Accession	Q3SZG6
Reactivity	Human
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB26332
Calculated MW	33431
Antigen Region	113-141

Additional Information

Gene ID	137392
Other Names	Protein FAM92A1, FAM92A1
Target/Specificity	This FAM92A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 113-141 amino acids from the Central region of human FAM92A1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FAM92A1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CIBAR1 (HGNC:30452)
Synonyms	FAM92A, FAM92A1
Function	Plays a critical role in regulating mitochondrial ultrastructure and function

by maintaining the integrity of mitochondrial morphology, particularly the organization of cristae (PubMed:30404948). Preferentially binds to negatively charged phospholipids like cardiolipin and phosphatidylinositol 4,5-bisphosphate enhancing its interaction with mitochondrial membranes (PubMed:30404948). Induces membrane curvature and tubulation, which are critical for maintaining mitochondrial ultrastructure and the organization of cristae (PubMed:30404948). Plays a crucial role in ciliogenesis (PubMed:27528616, PubMed:30395363). May play a role in limb development through its role in ciliogenesis (PubMed:30395363). Plays a key role in the correct positioning of the annulus, a septin- based ring structure in the sperm flagellum, serving both as a physical barrier and a membrane diffusion barrier that separates the midpiece (MP) from the principal piece (PP) (By similarity). This positioning is essential for proper sperm motility and function (By similarity). Interacts with CBY3 to form a complex which localizes to the curved membrane region of the flagellar pocket (By similarity). By doing so, may provide stability and rigidity to the periannular membrane to prevent membrane deformation (By similarity). This function is crucial for halting annulus migration at the proximal end of the fibrous sheath-containing PP (By similarity).

Cellular Location

Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole Cytoplasm, cytoskeleton, cilium basal body. Cell projection, cilium {ECO:0000250|UniProtKB:Q8BP22}. Nucleus. Mitochondrion inner membrane; Peripheral membrane protein; Matrix side. Cell projection, cilium, flagellum {ECO:0000250|UniProtKB:Q8BP22}. Note=Weak punctate vesicular distribution throughout the cytoplasm (PubMed:27528616). Localizes at the distal end of mother centrioles (PubMed:27528616). Extensive colocalization with CBY1 at mother centrioles (PubMed:27528616) Localizes to the annulus at the junction between the midpiece (MP) and principal piece (PP) of the sperm flagellum (By similarity) {ECO:0000250|UniProtKB:Q8BP22, ECO:0000269|PubMed:27528616}

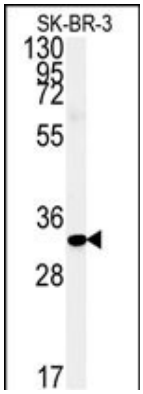
Background

The function of this protein has not been specifically defined.

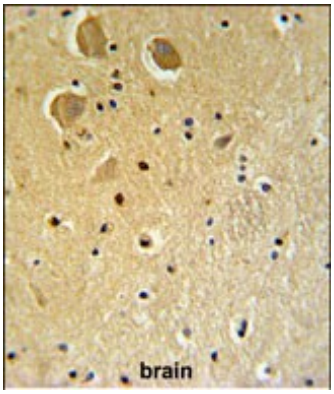
References

Liang, S., et al. Cancer Lett. 276(1):81-87(2009)
Ruan, X.Z., et al. Mol. Cells 23(3):391-397(2007)

Images



Western blot analysis of FAM92A1 Antibody (Center) (Cat. #AP5171c) in SK-BR-3 cell line lysates (35ug/lane).FAM92A1 (arrow) was detected using the purified Pab.



FAM92A1 Antibody (Center) (Cat. #AP5171c) IHC analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the FAM92A1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.