

IFT27 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17978b

Product Information

Application	WB, E
Primary Accession	Q9BW83
Other Accession	NP_001171172.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB38270
Calculated MW	20480
Antigen Region	157-183

Additional Information

Gene ID	11020
Other Names	Intraflagellar transport protein 27 homolog, Putative GTP-binding protein RAY-like, Rab-like protein 4, IFT27, RABL4, RAYL
Target/Specificity	This IFT27 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 157-183 amino acids of human IFT27.
Dilution	WB~~1:1000 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	IFT27 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	IFT27
Synonyms	RABL4, RAYL
Function	Small GTPase-like component of the intraflagellar transport (IFT) complex B that promotes the exit of the BBSome complex from cilia via its interaction

with ARL6 (PubMed:[25443296](#), PubMed:[40384633](#)). Not involved in entry of the BBSome complex into cilium. Prevents aggregation of GTP-free ARL6 (PubMed:[25443296](#)). Required for hedgehog signaling. Forms a subcomplex within the IFT complex B with IFT25. Its role in intraflagellar transport is mainly seen in tissues rich in ciliated cells such as kidney and testis. Essential for male fertility, spermiogenesis and sperm flagella formation. Plays a role in the early development of the kidney. May be involved in the regulation of ureteric bud initiation (By similarity).

Cellular Location

Cell projection, cilium. Cytoplasm {ECO:0000250|UniProtKB:Q9D0P8}. Cell projection, cilium, flagellum {ECO:0000250|UniProtKB:Q9D0P8}.
Note=Localizes to the sperm flagellum {ECO:0000250|UniProtKB:Q9D0P8}

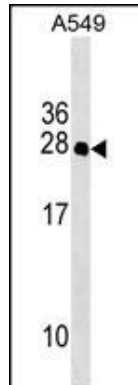
Background

This gene encodes a putative GTP-binding protein similar to RAY/RAB1C. The protein is ras-related, but the function is unknown. Several transcript variants encoding different isoforms have been found for this gene.

References

Qin, H., et al. Curr. Biol. 17(3):193-202(2007)
Collins, J.E., et al. Genome Biol. 5 (10), R84 (2004) :
Collins, J.E., et al. Genome Res. 13(1):27-36(2003)
Dunham, I., et al. Nature 402(6761):489-495(1999)

Images



IFT27 Antibody (C-term) (Cat. #AP17978b) western blot analysis in A549 cell line lysates (35ug/lane). This demonstrates the IFT27 antibody detected the IFT27 protein (arrow).

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