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IFT88 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11138b

Product Information

Application	WB, IHC-P, IF, E
Primary Accession	Q13099
Other Accession	Q61371, NP_006522.2
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24875
Calculated MW	93192
Antigen Region	791-820

Additional Information

Gene ID	8100
Other Names	Intraflagellar transport protein 88 homolog, Recessive polycystic kidney disease protein Tg737 homolog, Tetratricopeptide repeat protein 10, TPR repeat protein 10, IFT88, TG737, TTC10
Target/Specificity	This IFT88 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 791-820 amino acids from the C-terminal region of human IFT88.
Dilution	WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 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	IFT88 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	IFT88
Synonyms	TG737, TTC10

Function	Positively regulates primary cilium biogenesis (PubMed: 17604723). Also involved in autophagy since it is required for trafficking of ATG16L and the expansion of the autophagic compartment.
Cellular Location	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole {ECO:0000250|UniProtKB:Q61371}. Cell projection, cilium. Cytoplasm, cytoskeleton, cilium basal body. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm {ECO:0000250|UniProtKB:Q61371}. Cell projection, cilium, flagellum {ECO:0000250|UniProtKB:Q61371}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q61371}. Note=Colocalizes with ENTR1 and gamma- tubulin at the basal body of primary cilia (PubMed:27767179) Colocalizes with ENTR1 and pericentrin at the centrosome (PubMed:27767179). In sperm cells, localizes to the manchette, head- tail coupling apparatus and flagellum (By similarity) {ECO:0000250|UniProtKB:Q61371, ECO:0000269|PubMed:27767179}
Tissue Location	Expressed in the heart, brain, liver, lung, kidney, skeletal muscle and pancreas.

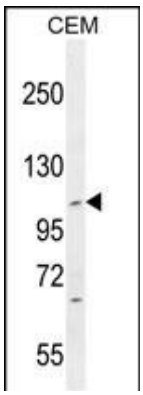
Background

This gene encodes a member of the tetratrico peptide repeat (TPR) family. Mutations of a similar gene in mouse can cause polycystic kidney disease. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq].

References

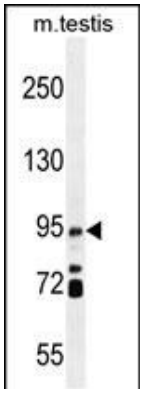
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Robert, A., et al. J. Cell. Sci. 120 (PT 4), 628-637 (2007) :
Khanna, H., et al. J. Biol. Chem. 280(39):33580-33587(2005)
Lehner, B., et al. Genomics 83(1):153-167(2004)
Harrington, J.J., et al. Nat. Biotechnol. 19(5):440-445(2001)

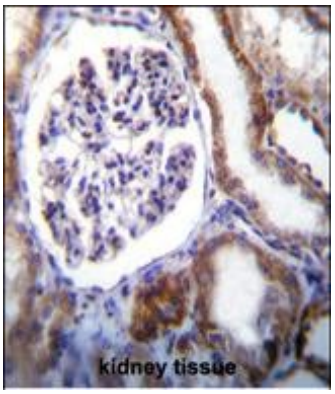
Images



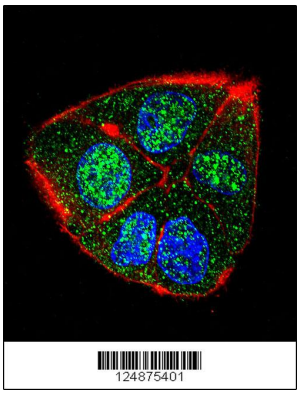
IFT88 Antibody (C-term) (Cat. #AP11138b) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the IFT88 antibody detected the IFT88 protein (arrow).

IFT88 Antibody (C-term) (Cat. #AP11138b) western blot analysis in mouse testis tissue lysates (35ug/lane).This demonstrates the IFT88 antibody detected the IFT88 protein (arrow).





IFT88 Antibody (C-term) (Cat. #AP11138b)immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of IFT88 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Confocal immunofluorescent analysis of IFT88 Antibody (C-term)(Cat#AP11138b) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). Actin filaments have been labeled with Alexa Fluor555 phalloidin (red). DAPI was used to stain the cell nuclear (blue).

Citations

- Primary cilia and autophagy interaction is involved in mechanical stress mediated cartilage development via ERK/mTOR axis.
- Basic fibroblast growth factor increases IFT88 expression in chondrocytes.
- HDAC6 inhibition suppresses chondrosarcoma by restoring the expression of primary cilia.