

IFT140 Rabbit pAb

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Catalog # AP56040

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q96RY7
Reactivity	Rat
Predicted	Human, Mouse, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	165193
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human IFT140
Epitope Specificity	1151-1250/1462
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm, cytoskeleton, cilium basal body.
DISEASE	Mainzer-Saldino syndrome (MZSDS) [MIM:266920]: A rare autosomal recessive disease characterized by phalangeal cone-shaped epiphyses, chronic renal disease, nearly constant retinal dystrophy, and mild radiographic abnormality of the proximal femur. Occasional features include short stature, cerebellar ataxia, and hepatic fibrosis. Note=The disease is caused by mutations affecting the gene represented in this entry.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	IFT140 is a gene encodes one of the subunits of the intraflagellar transport (IFT) complex A. Intraflagellar transport is involved in the genesis, resorption and signaling of primary cilia. The primary cilium is a microtubule-based sensory organelle at the surface of most quiescent mammalian cells, that receives signals from its environment, such as the flow of fluid, light or odors, and transduces those signals to the nucleus. Loss of the corresponding protein in mouse results in renal cystic disease.

Additional Information

Gene ID	9742
Other Names	Intraflagellar transport protein 140 homolog, WD and tetratricopeptide repeats protein 2, IFT140 (HGNC:29077), KIAA0590, WDTC2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

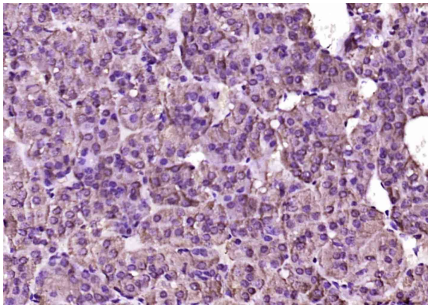
Protein Information

Name	IFT140 (HGNC:29077)
Synonyms	KIAA0590, WDTC2
Function	Component of the IFT complex A (IFT-A), a complex required for retrograde ciliary transport and entry into cilia of G protein- coupled receptors (GPCRs) (PubMed: 20889716 , PubMed: 22503633 , PubMed: 36775821). Plays a pivotal role in proper development and function of ciliated cells through its role in ciliogenesis and/or cilium maintenance (PubMed: 22503633). Required for the development and maintenance of the outer segments of rod and cone photoreceptor cells. Plays a role in maintenance and the delivery of opsin to the outer segment of photoreceptor cells (By similarity).
Cellular Location	Cytoplasm, cytoskeleton, cilium basal body. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cell projection, cilium

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (rat adrenal gland); 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 (IFT140) Polyclonal Antibody, Unconjugated (AP56040) 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'.