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# IFT140 Rabbit pAb

IFT140 Rabbit pAb
Catalog # AP56040

## Product Information

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| **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

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| **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.

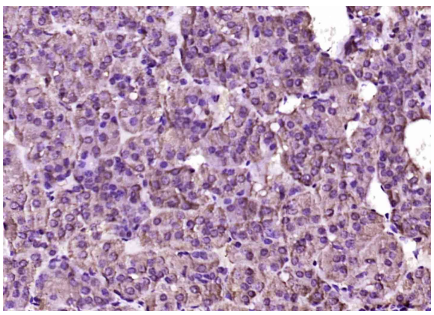
## Protein Information

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| **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 |

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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) instructionsand DAB staining.

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