

DNAH1 Rabbit pAb

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Catalog # AP55537

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9P2D7
Reactivity	Rat, Human, Mouse
Predicted	Pig, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	487498
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DNAH1
Epitope Specificity	4201-4330/4330
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 axoneme.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Dyneins are multisubunit, high molecular weight ATPases that interact with microtubules to generate force by converting the chemical energy of ATP into the mechanical energy of movement. Axonemal Dynein motors contain one to three non-identical heavy chains and cause a sliding of microtubules in the axonemes of cilia and flagella in a mechanism necessary for cilia to beat and propel the cell. DNAH1 (dynein heavy chain 1, axonemal), also known as heat shock regulated protein 1 or ciliary dynein heavy chain 1, is a 4,330 amino acid protein consisting of at least two heavy chains and several intermediate and light chains. Mutations in the gene encoding DNAH1 may be a cause of primary ciliary dyskinesia, also known as Kartagener Syndrome, which is characterized by chronic recurrent respiratory infections due to defective cilia action in the respiratory tract. There are three isoforms of DNAH1 that exist as a result of alternative splicing events.

Additional Information

Gene ID	25981
Other Names	Dynein axonemal heavy chain 1, Axonemal beta dynein heavy chain 1, Ciliary dynein heavy chain 1, Heat shock regulated protein 1, HSRF-1, hDHC7, DNAH1 (HGNC:2940), DHC7, DNAHC1, KIAA1410
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.

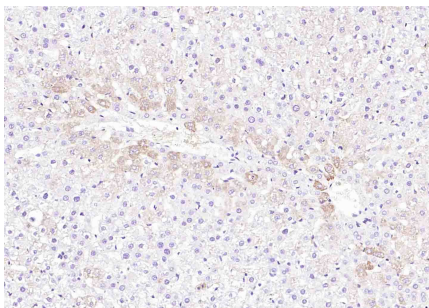
Protein Information

Name	DNAH1 (HGNC:2940)
Synonyms	DHC7, DNAHC1, KIAA1410
Function	Force generating protein of cilia required for sperm flagellum motility. Produces force towards the minus ends of microtubules. Dynein has ATPase activity; the force-producing power stroke is thought to occur on release of ADP. Required in spermatozoa for the formation of the inner dynein arms and biogenesis of the axoneme (PubMed: 24360805).
Cellular Location	Cytoplasm, cytoskeleton, cilium axoneme. Cell projection, cilium, flagellum Note=Recruitment to the sperm flagellum requires interaction with DNAH12. {ECO:0000250 UniProtKB:E9Q8T7}
Tissue Location	Expressed primarily in trachea and testis, 2 tissues containing axonemal structures. Also expressed in brain (PubMed:11175280).

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Images



Paraformaldehyde-fixed, paraffin embedded (rat liver); 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; Incubation with (DNAH1) Polyclonal Antibody, Unconjugated (AP55537) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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