

DNAH11 Rabbit pAb

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Catalog # AP55538

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q96DT5
Predicted	Rat, Pig, Dog, Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	520369
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DNAH11
Epitope Specificity	1701-1800/4523
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.
DISEASE	Defects in DNAH11 are a cause of Kartagener syndrome (KTGS) [MIM:244400]. KTGS is an autosomal recessive disorder characterized by the association of primary ciliary dyskinesia with situs inversus. Clinical features include recurrent respiratory infections, bronchiectasis, infertility, and lateral transposition of the viscera of the thorax and abdomen. The situs inversus is most often total, although it can be partial in some cases (isolated dextrocardia or isolated transposition of abdominal viscera). Defects in DNAH11 are the cause of primary ciliary dyskinesia type 7 (CILD7) [MIM:611884]. CILD is an autosomal recessive disorder characterized by axonemal abnormalities of motile cilia. Respiratory infections leading to chronic inflammation and bronchiectasis are recurrent, due to defects in the respiratory cilia; reduced fertility is often observed in male patients due to abnormalities of sperm tails. Half of the patients exhibit situs inversus, due to dysfunction of monocilia at the embryonic node and randomization of left-right body asymmetry. Primary ciliary dyskinesia associated with situs inversus is referred to as Kartagener syndrome.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a ciliary outer dynein arm protein and is a member of the dynein heavy chain family. It is a microtubule-dependent motor ATPase and has been reported to be involved in the movement of respiratory cilia. Mutations in this gene have been implicated in causing Kartagener Syndrome (a combination of situs inversus totalis and Primary Ciliary Dyskinesia (PCD), also called Immotile Cilia Syndrome 1 (ICS1)) and male sterility. [provided by RefSeq, Mar 2013]

Additional Information

Gene ID	8701
Other Names	Dynein axonemal heavy chain 11, Axonemal beta dynein heavy chain 11, Ciliary dynein heavy chain 11, DNAH11 (HGNC:2942)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
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	DNAH11 (HGNC:2942)
Function	Force generating protein required for cilia beating in respiratory epithelia (By similarity). Produces force towards the minus ends of microtubules (By similarity). Key component of dynein, a family of motor proteins essential for movement along microtubules (By similarity). Dynein has ATPase activity; the force-producing power stroke is thought to occur on release of ADP (By similarity). Required for structural and functional integrity of cilia (By similarity).
Cellular Location	Cytoplasm, cytoskeleton, cilium axoneme Note=Located in the proximal region of respiratory cilia
Tissue Location	Expressed in airway ciliated epithelial cells (at protein level) (PubMed:31178125, PubMed:33139725). Not detected in spermatozoa (at protein level) (PubMed:31178125)

Background

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