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DNAH9 Rabbit pAb

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Catalog # AP54426

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9NYC9
Predicted	Rat, Dog, Human, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	511877
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DNAH9
Epitope Specificity	3001-3200/4486
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	Cytoplasmic
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 the heavy chain subunit of axonemal dynein, a large multi-subunit molecular motor. Axonemal dynein attaches to microtubules and hydrolyzes ATP to mediate the movement of cilia and flagella. The gene expresses at least two transcript variants; additional variants have been described, but their full length nature has not been determined. [provided by RefSeq, Jul 2008].

Additional Information

Gene ID	1770
Other Names	Dynein axonemal heavy chain 9, Axonemal beta dynein heavy chain 9, Ciliary dynein heavy chain 9, DNAH9 (HGNC:2953), DNAH17L, DNEL1, KIAA0357
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	DNAH9 (HGNC:2953)

Synonyms	DNAH17L, DNEL1, KIAA0357
Function	Force generating protein required for cilia beating in respiratory epithelia (PubMed:30471717, PubMed:30471718). Produces force towards the minus ends of microtubules (PubMed:30471717, PubMed:30471718). 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 (PubMed:30471717, PubMed:30471718). Required for structural and functional integrity of cilia (PubMed:30471717, PubMed:30471718).
Cellular Location	Cytoplasm, cytoskeleton, cilium axoneme. Cell projection, cilium, flagellum. Note=Found in the distal portion of ciliary axoneme.
Tissue Location	Expressed in upper and lower respiratory airway epithelia (at protein level). Not detected in spermatozoa (at protein level) (PubMed:31178125).

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