10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DNAH2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16211a

Product Information

Application	WB, E
Primary Accession	Q9P225
Other Accession	NP_065928.2
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35662
Calculated MW	507698
Antigen Region	440-468

Additional Information

Gene ID	146754
Other Names	Dynein heavy chain 2, axonemal, Axonemal beta dynein heavy chain 2, Ciliary dynein heavy chain 2, Dynein heavy chain domain-containing protein 3, DNAH2, DNAHC2, DNHD3, KIAA1503
Target/Specificity	This DNAH2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 440-468 amino acids from the N-terminal region of human DNAH2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DNAH2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DNAH2 (HGNC:2948)
Synonyms	DNAHC2, DNHD3, KIAA1503

Function	As part of the axonemal inner dynein arm complex plays a central role in ciliary beat (PubMed:30811583). Expressed in sperm flagellum, it is required for sperm motility (PubMed:30811583). Dyneins are microtubule-based molecular motors possessing ATPase activities that can convert the chemical energy of ATP into relative sliding between adjacent microtubule doublets to generate ciliary bending (PubMed:30811583).
Cellular Location	Cytoplasm, cytoskeleton, cilium axoneme {ECO:0000250|UniProtKB:P0C6F1}. Cytoplasm, cytoskeleton, flagellum axoneme
Tissue Location	Expressed primarily in trachea and testis, 2 tissues containing axonemal structures. Also expressed in lung Expressed in spermatozoa (at protein level) (PubMed:31178125)

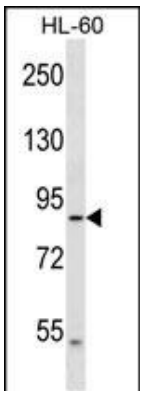
Background

Dyneins are microtubule-associated motor protein complexes composed of several heavy, light, and intermediate chains. The axonemal dyneins, found in cilia and flagella, are components of the outer and inner dynein arms attached to the peripheral microtubule doublets. DNAH2 is an axonemal inner arm dynein heavy chain (Chapelin et al., 1997 [PubMed 9256245]).

References

Barrett, J.C., et al. Nat. Genet. (2009) In press :
Wistow, G., et al. Mol. Vis. 8, 196-204 (2002) :
Chapelin, C., et al. FEBS Lett. 412(2):325-330(1997)

Images



DNAH2 Antibody (N-term) (Cat. #AP16211a) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the DNAH2 antibody detected the DNAH2 protein (arrow).

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