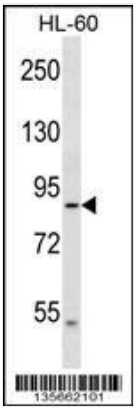
DNAH2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DNAH2, Polyclonal Antibody
Full Product Name	DNAH2, NT (DNAH2, DNAHC2, DNHD3, KIAA1503, Dynein heavy chain 2, axonemal, Axonemal beta dynein heavy chain 2, Ciliary dynein heavy chain 2, Dynein heavy chain domain-containing protein 3) (FITC)
Product Gene Name	anti-DNAH2 antibody
Product Synonym Names	DNAH2; DNAHC2; DNHD3; KIAA1503; Dynein heavy chain 2; axonemal; Axonemal beta dynein heavy chain 2; Ciliary dynein heavy chain 2; Dynein heavy chain domain-containing protein 3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	507,698 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (7620631..7737058). Location: 17p13.1
OMIM	603333
3D Structure	ModBase 3D Structure for Q9P225
Immunogen	DNAH2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 439-468 amino acids from the N-terminal region of human DNAH2.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-DNAH2 antibody	Antibodies; KIAA; orf
Applications Tested/Suitable for anti-DNAH2 antibody	Western Blot (WB), FLISA
Application Notes for anti-DNAH2 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-DNAH2 antibody	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]).

Product References and Citations for anti-DNAH2 antibody	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).
Other Notes	Small volumes of anti-DNAH2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DNAH2 purchase	MBS6292567 is an antibody targeting DNAH2. Also known as DNAH2, NT (DNAH2, DNAHC2, DNHD3, KIAA1503, Dynein heavy chain 2, axonemal, Axonemal beta dynein heavy chain 2, Ciliary dynein heavy chain 2, Dynein heavy chain domain-containing protein 3) (FITC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-DNAH2 antibody
DNAH2 Antibody (N-term) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the DNAH2 antibody detected the DNAH2 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DNAH2. It may not necessarily be applicable to this product.

NCBI GI #	75677365
NCBI GeneID	146754
NCBI Accession #	NP_065928.2
UniProt Primary Accession #	Q9P225
UniProt Secondary Accession #	O15434; Q6PIH3; Q6ZR42; A8K992; B5MDX5
UniProt Related Accession #	Q9P225
GenBank Nucleotide #	NM_020877.2
NCBI Official Full Name	dynein heavy chain 2, axonemal
NCBI Official Synonym Full Names	dynein, axonemal, heavy chain 2
NCBI Official Symbol	DNAH2
NCBI Official Synonym Symbols	DNHD3; DNAHC2
UniProt Protein Name	Dynein heavy chain 2, axonemal
UniProt Synonym Protein Names	Axonemal beta dynein heavy chain 2; Ciliary dynein heavy chain 2; Dynein heavy chain domain-containing protein 3
Protein Family	Dynein
UniProt Gene Name	DNAH2
UniProt Synonym Gene Names	DNAHC2; DNHD3; KIAA1503
UniProt Entry Name	DYH2_HUMAN

NCBI Protein Information	dynein heavy chain 2, axonemal; dynein heavy chain domain 3; ciliary dynein heavy chain 2; dynein, axonemal, heavy chain-2; axonemal beta dynein heavy chain 2; dynein, axonemal, heavy polypeptide 2; dynein heavy chain domain-containing protein 3
UniProt Comments for DNAH2	Function: Force generating protein of respiratory cilia. 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. Involved in sperm motility; implicated in sperm flagellar assembly By similarity. Subunit structure: Consists of at least two heavy chains and a number of intermediate and light chains. Subcellular location: Cytoplasm › cytoskeleton › cilium axoneme Potential. Tissue specificity: Expressed primarily in trachea and testis, 2 tissues containing axonemal structures. Also expressed in lung. Ref.5 Domain: Dynein heavy chains probably consist of an N-terminal stem (which binds cargo and interacts with other dynein components), and the head or motor domain. The motor contains six tandemly-linked AAA domains in the head, which form a ring. A stalk-like structure (formed by two of the coiled coil domains) protrudes between AAA 4 and AAA 5 and terminates in a microtubule-binding site. A seventh domain may also contribute to this ring; it is not clear whether the N-terminus or the C-terminus forms this extra domain. There are four well-conserved and two non-conserved ATPase sites, one per AAA domain. Probably only one of these (within AAA 1) actually hydrolyzes ATP, the others may serve a regulatory function By similarity. Sequence similarities: Belongs to the dynein heavy chain family.Contains 5 TPR repeats. RNA editing: Modified position: not applicable.Exon 13 included in isoform 3 is extensively edited in brain. Ref.6 Sequence caution: The sequence AK128517 differs from that shown. Reason: Frameshift at position 3963. The sequence BAA96027.2 differs from that shown. Reason: Erroneous initiation.
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