DNAI2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DNAI2, Polyclonal Antibody
Full Product Name	DNAI2, CT (DNAI2, Dynein intermediate chain 2, axonemal, Axonemal dynein intermediate chain 2) (MaxLight 490)
Product Gene Name	anti-DNAI2 antibody
Product Synonym Names	DNAI2; Dynein intermediate chain 2; axonemal; Axonemal dynein intermediate chain 2
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 MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	67,444 Da
OMIM	605483
3D Structure	ModBase 3D Structure for Q9GZS0
Immunogen	DNAI2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 484-513 amino acids from the C-terminal region of human DNAI2.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-DNAI2 antibody	Antibodies; Motor Proteins
Applications Tested/Suitable for anti-DNAI2 antibody	Western Blot (WB), FLISA
Application Notes for anti-DNAI2 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-DNAI2 antibody	The protein encoded by this gene belongs to the dynein intermediate chain family, and is part of the dynein complex of respiratory cilia and sperm flagella. Mutations in this gene are associated with primary ciliary dyskinesia type 9. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.
Product References and Citations for anti-DNAI2 antibody	Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Loges, N.T., et al. Am. J. Hum. Genet. 83(5):547-558(2008). Pennarun, G., et al. Hum. Genet. 107(6):642-649(2000).
Other Notes	Small volumes of anti-DNAI2 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 DNAI2 purchase	MBS6292592 is an antibody targeting DNAI2. Also known as DNAI2, CT (DNAI2, Dynein intermediate chain 2, axonemal, Axonemal dynein intermediate chain 2) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DNAI2. It may not necessarily be applicable to this product.

NCBI GI #	217416452
NCBI GeneID	64446
NCBI Accession #	NP_075462.3
UniProt Primary Accession #	Q9GZS0
UniProt Secondary Accession #	Q8IUW4; Q9H179; Q9NT53; C9J0S6
UniProt Related Accession #	Q9GZS0
GenBank Nucleotide #	NM_023036.4
NCBI Official Full Name	dynein intermediate chain 2, axonemal isoform 1
NCBI Official Synonym Full Names	dynein axonemal intermediate chain 2
NCBI Official Symbol	DNAI2
NCBI Official Synonym Symbols	DIC2; CILD9
UniProt Protein Name	Dynein intermediate chain 2, axonemal
UniProt Synonym Protein Names	Axonemal dynein intermediate chain 2
Protein Family	Dynein
UniProt Gene Name	DNAI2
UniProt Entry Name	DNAI2_HUMAN
NCBI Protein Information	dynein intermediate chain 2, axonemal
UniProt Comments for DNAI2	DNAI2: Part of the dynein complex of respiratory cilia. Defects in DNAI2 are the cause of primary ciliary dyskinesia type 9 (CILD9). 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. Belongs to the dynein intermediate chain family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motor; Motility/polarity/chemotaxis; Microtubule-binding Chromosomal Location of Human Ortholog: 17q25 Cellular Component: microtubule; axonemal dynein complex; axoneme Molecular Function: protein binding; microtubule motor activity Biological Process: metabolic process; cilium biogenesis Disease: Ciliary Dyskinesia, Primary, 9
Research Articles on DNAI2	**1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator)

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