DYNLT1 Antibody

PRODUCT OVERVIEW

Product Name	DYNLT1, Antibody
Full Product Name	DYNLT1 Antibody
Product Gene Name	anti-DYNLT1 antibody
Molecular Weight	12,452 Da
OMIM	601554
3D Structure	ModBase 3D Structure for P63172
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-DYNLT1 antibody	MBS8504653 is an antibody targeting DYNLT1. Also known as DYNLT1 Antibody.
Other Notes	Small volumes of anti-DYNLT1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DYNLT1. It may not necessarily be applicable to this product.

NCBI GI #	5730085
NCBI GeneID	6993
NCBI Accession #	NP_006510.1
UniProt Primary Accession #	P63172
UniProt Secondary Accession #	Q15763; Q5VTU4
UniProt Related Accession #	P63172
GenBank Nucleotide #	NM_006519.3
NCBI Official Full Name	dynein light chain Tctex-type 1 isoform 1
NCBI Official Synonym Full Names	dynein light chain Tctex-type 1
NCBI Official Symbol	DYNLT1
NCBI Official Synonym Symbols	CW-1; TCTEL1; tctex-1
UniProt Protein Name	Dynein light chain Tctex-type 1
UniProt Synonym Protein Names	Protein CW-1; T-complex testis-specific protein 1 homolog
Protein Family	Dynein
UniProt Gene Name	DYNLT1
UniProt Synonym Gene Names	TCTEL1; TCTEX-1; TCTEX1
NCBI Protein Information	dynein light chain Tctex-type 1

NCBI Summary for DYNLT1	This gene encodes a component of the motor complex, cytoplasmic dynein, which transports cellular cargo along microtubules in the cell. The encoded protein regulates the length of primary cilia which are sensory organelles found on the surface of cells. The protein encoded by this gene interacts with viral proteins, like the minor capsid protein L2 of human papillomavirus, and is required for dynein-mediated delivery of the viral nucleic acid to the host nucleus. This protein interacts with oncogenic nucleoporins to disrupt gene regulation and cause leukemic transformation. Pseudogenes of this gene are present on chromosomes 4 and 17. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2014]
UniProt Comments for DYNLT1	Acts as one of several non-catalytic accessory components of the cytoplasmic dynein 1 complex that are thought to be involved in linking dynein to cargos and to adapter proteins that regulate dynein function. Cytoplasmic dynein 1 acts as a motor for the intracellular retrograde motility of vesicles and organelles along microtubules. Binds to transport cargos and is involved in apical cargo transport such as rhodopsin-bearing vesicles in polarized epithelia. May also be a accessory component of axonemal dynein.Plays a role in neuronal morphogenesis; the function is independent of cytoplasmic dynein and seems to be coupled to regulation of the actin cytoskeleton by enhancing Rac1 activity. The function in neurogenesis may be regulated by association with a G-protein beta-gamma dimer. May function as a receptor-independent activator of heterotrimeric G-protein signaling; the activation appears to be independent of a nucleotide exchange. Plays a role in regulating neurogenesis; inhibits the genesis of neurons from precursor cells during cortical development presumably by antagonizing ARHGEF2. Involved in the regulation of mitotic spindle orientation (). Unrelated to the role in retrograde microtubule-associated movement may play a role in the dimerization of cytoplasmic proteins/domains such as for ACVR2B. Binds to the cytoplasmic domain of ACVR2B and, in vitro, inhibits ACVR2B signaling (PubMed:27502274).
Research Articles on DYNLT1	**1.** Desmosomal cadherin association with Tctex-1 and cortactin-Arp2/3 drives perijunctional actin polymerization to promote keratinocyte delamination.
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