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Product datasheet

Recombinant Human Dynein intermediate chain 1/DNAI1 protein ab153279

1 References 1 Image

Description

Product name	Recombinant Human Dynein intermediate chain 1/DNAI1 protein
Expression system	Wheat germ
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MIPASAKSPHKQPHKQSISIGRGTRKRDEDSGTEVGEGTD EWAQSKATVR PPDQLELTDAELKEEFTRILTANNPHAPQNIVRYSFKEGTY KPIGFVNQL AVHYTQVGNLIPKDSDEGRRQHYRDELVAGSQESVKVISE TGNLEEDEEP KELETEPGSQTDVPAAGAAEKVTEEELMTPKQPKERKLT NQFNFSERASQ TCNNPVRDRECQTEPPPRTNFSATANQWEIYDAYVEELE KQEKTKEKEKA KTPVAKKSGKMAMRKLTSMESQTDDLIKLSQAAKIMERM VNQNTYDDIAQ DFKYYDDAADEYRDQVGTLLPLWKFQNDKAKRLSVTALC WNPKYRDLFAV GYGSYDFMKQSRGMLLLYSLKNPSFPEYMFSSNSGVMCL DIHVDHPYLVA VGHYDGNVAIYNLKKPHSQPSFCSSAKSGKHSDPVWQV KWQKDDMDQNLN FFSVSSDGRIVSWTLVKRKLVHIDVIKLKVEGSTTEVPEGL QLHQVGCGT AFDFHKEIDYMFLVGTEEGKIYKCSKSYSSQFLDTYDAHN MSVDTVSWNP YHTKVFMSCSSDWTVKIWDHTIKTPMFIYDLNSAVGDVAW APYSSTVFAA VTTDGKAHIFDLAINKYEAICNQPVAAKKNRLTHVQFNLIHPI IIVGDDR GHIISLKLSPNLRKMPKEKKGQEVQKGPAVEIAKLDKLLNL

VREVKIKT

Amino acids	1 to 699
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab153279** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA Western blot
Form	Liquid
Additional notes	This product was previously labelled as Dynein intermediate chain 1.

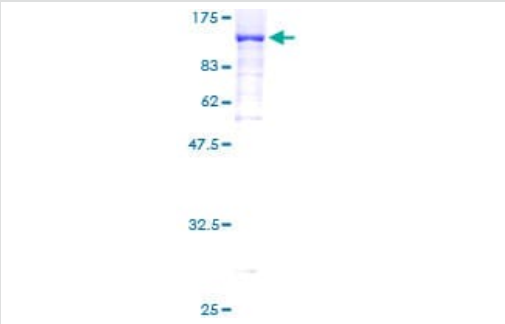
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function	Part of the dynein complex of respiratory cilia.
Involvement in disease	Defects in DNAI1 are the cause of primary ciliary dyskinesia type 1 (CILD1) [MIM:244400]. CILD1 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. Defects in DNAI1 are the cause of Kartagener syndrome (KTGS) [MIM:244400]. KTGS is an autosomal recessive disorder characterized by the association of primary ciliary dyskinesia with situs inversus. Clinical features include recurrent respiratory infections, bronchiectasis, infertility, and lateral transposition of the viscera of the thorax and abdomen. The situs inversus is most often total, although it can be partial in some cases (isolated dextrocardia or isolated transposition of abdominal viscera).
Sequence similarities	Belongs to the dynein intermediate chain family. Contains 5 WD repeats.
Cellular localization	Cytoplasm > cytoskeleton > cilium axoneme.

Images



SDS-PAGE - Recombinant Human Dynein intermediate chain 1/DNAI1 protein (ab153279)

ab153279 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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