




Product datasheet

Anti-DYNC2H1 antibody ab225946

4 Images

Overview

Product name	Anti-DYNC2H1 antibody
Description	Rabbit polyclonal to DYNC2H1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Recombinant fragment (GST-tag) corresponding to Human DYNC2H1 aa 1928-2065. Sequence: GIELKEVEYDELSAALKQVFEEANYEIPNQIKKALELYEQL CQRMGVVI VGPSGAGKSTLWRMLRAALCKTGKVVQYTMNPKAMPR YQLLGHIDMDTR EWSDGVLTN SARQVVREPQDVSSWIICDGDIDPEWIES Database link: Q8NCM8  Run BLAST with  Run BLAST with
Positive control	WB: Recombinant Human DYNC2H1 protein with N-terminal GST tag. IHC-P: Human testis and small intestine tissues. ICC/IF: HeLa cells.
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p>

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Constituents: 50% Glycerol (glycerin, glycerine), PBS, 0.03% Proclin 300
Purity	Protein G purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab225946** in the following tested applications.

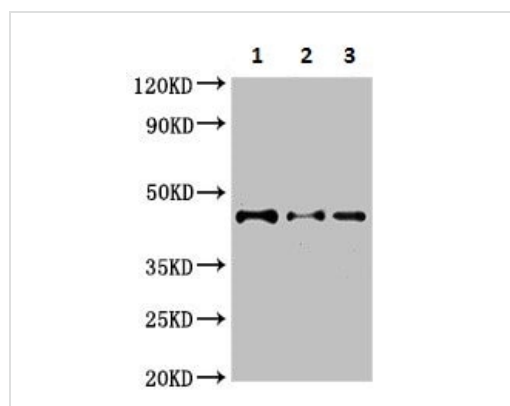
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/5000. Predicted molecular weight: 493 kDa.
IHC-P		1/20 - 1/200.
ICC/IF		1/50 - 1/200.

Target

Function	May function as a motor for intraflagellar retrograde transport. Functions in cilia biogenesis. May play a role in transport between endoplasmic reticulum and Golgi or organization of the Golgi in cells.
Involvement in disease	Defects in DYNC2H1 are the cause of asphyxiating thoracic dystrophy type 3 (ATD3) [MIM:613091]. ATD3 is an autosomal recessive osteochondrodysplasia which often leads to death in infancy because of a severely constricted thoracic cage and respiratory insufficiency. Defects in DYNC2H1 are the cause of short rib-polydactyly syndrome type 3 (SRPS3) [MIM:263510]; also called Verma-Naumoff syndrome. A lethal skeletal dysplasia characterized by markedly short ribs, short limbs, polydactyly, narrow thorax, and multiple anomalies of major organs, including heart, intestines, genitalia, kidney, liver, and pancreas.
Sequence similarities	Belongs to the dynein heavy chain family.
Cellular localization	Cytoplasm > cytoskeleton > cilium axoneme. Cell membrane. Cytoplasm. Localizes to the apical cytoplasm (By similarity). According to PubMed:8666668, it localizes to Golgi apparatus, cytoplasmic vesicle and endoplasmic reticulum.

Images



Western blot - Anti-DYNC2H1 antibody (ab225946)

All lanes : Anti-DYNC2H1 antibody (ab225946) at 1/500 dilution

Lane 1 : Recombinant Human DYNC2H1 protein with N-terminal GST tag, 80 ng

Lane 2 : Recombinant Human DYNC2H1 protein with N-terminal GST tag, 40 ng

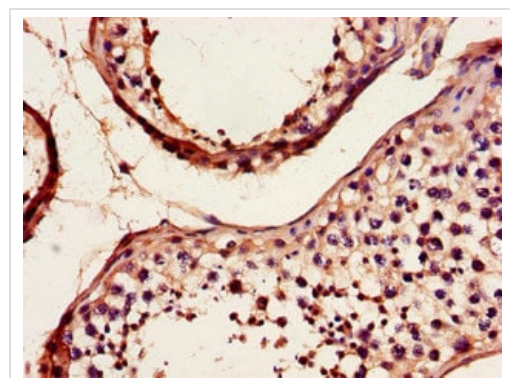
Lane 3 : Recombinant Human DYNC2H1 protein with N-terminal GST tag, 20 ng

Secondary

All lanes : Goat polyclonal to rabbit IgG at 1/50000 dilution

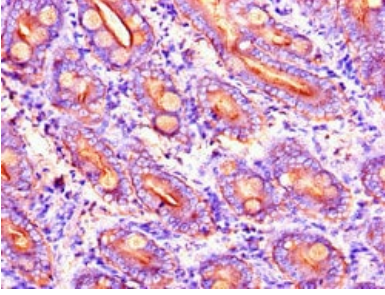
Predicted band size: 493 kDa

Predicted MW of recombinant protein: 45 kDa.



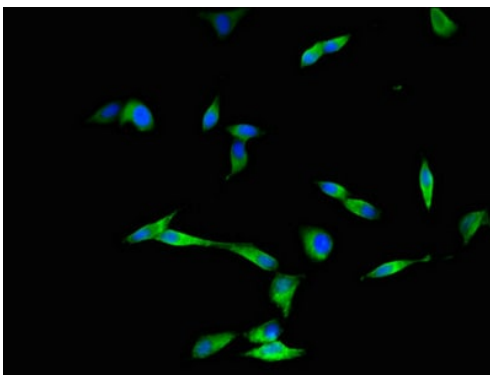
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DYNC2H1 antibody (ab225946)

Paraffin-embedded human testis tissue stained for DYNC2H1 with ab225946 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DYNC2H1 antibody (ab225946)

Paraffin-embedded human small intestine tissue stained for DYNC2H1 with ab225946 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence - Anti-DYNC2H1 antibody (ab225946)

HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for DYNC2H1 (green) using ab225946 at 1/100 dilution in ICC/IF, followed by Alexa Fluor 488[®] conjugated Goat Anti-Rabbit IgG (H+L).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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