abcam

Product datasheet

Anti-Dynein heavy chain antibody ab133968

1 References 1 Image

Overview

Product name	Anti-Dynein heavy chain antibody
Description	Rabbit polyclonal to Dynein heavy chain
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Rat, Horse, Guinea pig, Cow, Dog
Immunogen	Synthetic peptide within Human Dynein heavy chain aa 4206-4255 (C terminal). The exact sequence is proprietary. Sequence: DSQARDGAGATREEKVKALLEEILERVTDEFNIPELMAKV EERTPYIVVA Run BLAST with Run BLAST with
Positive control	WB: Human placenta tissue lysate
General notes	Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough. Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility. 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. In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for. 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. 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. 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: 7.2 Preservative: 0.09% Sodium azide Constituents: 2% Sucrose, PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab133968** in the following tested applications.

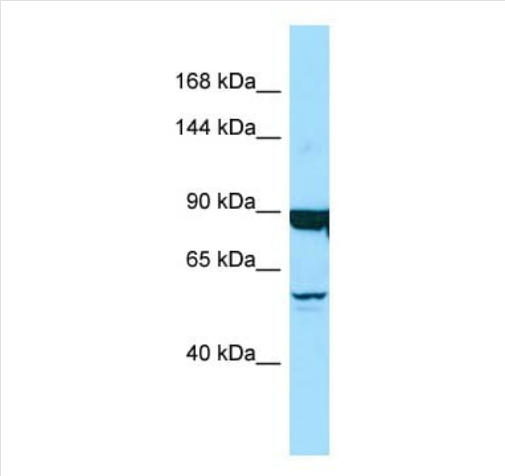
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 512 kDa.

Target

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.
Sequence similarities	Belongs to the dynein heavy chain family.
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.
Cellular localization	Cytoplasm, cytoskeleton, cilium axoneme.

Images



Western blot - Anti-Dynein heavy chain antibody (ab133968)

Anti-Dynein heavy chain antibody (ab133968) at 1 µg/ml + Human placenta tissue lysate at 10 µg

Predicted band size: 512 kDa

The predicted MW of Isoform 3 (UniProt Q9NYC9-3) is 91 kDa.

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