

Anti-DYNLT3 antibody ab121209

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Overview

Product name	Anti-DYNLT3 antibody
Description	Rabbit polyclonal to DYNLT3
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	antigen sequence: DEVGFNAEEA HNVKECVDG VLGGEDYNHN NINQWTASV EQSLTHLVKL GKAYKYVTC AVVQKSAYGF HTASSCFWDT TSDGTCTVRW E, corresponding to amino acids 9-99 of Human DYNLT3. Run BLAST with ExpASY Run BLAST with NCBI
Positive control	WB: Wild-type HeLa, SK-MEL-20, MCF-7, and NBT-II whole cell lysates; IHC-P: Human cerebral cortex tissue.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab121209 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
IHC-P		1/1000 - 1/2500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		Use a concentration of 0.04 - 0.4 µg/ml.

Target

Function

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. Probably binds BUB3 as part of transport cargo. Required for the efficient progression through mitosis.

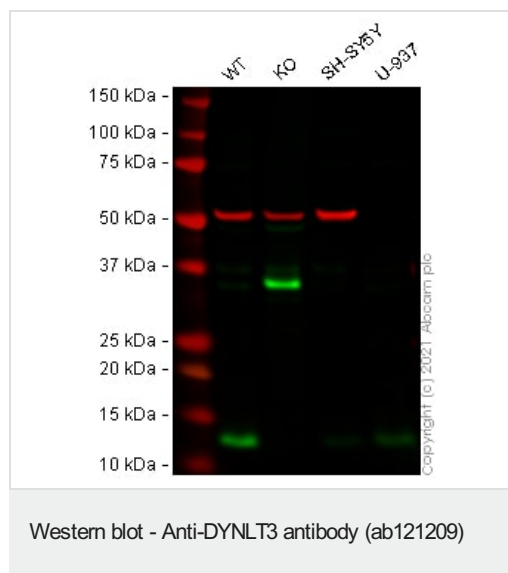
Sequence similarities

Belongs to the dynein light chain Tctex-type family.

Cellular localization

Nucleus. Cytoplasm > cytoskeleton. Chromosome > centromere > kinetochore. Colocalizes with BUB3 at kinetochores specifically during prometaphase.

Images



All lanes : Anti-DYNLT3 antibody (ab121209) at 0.04 µg/ml

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : DYNLT3 knockout HeLa cell lysate

Lane 3 : SH-SY5Y cell lysate

Lane 4 : U937 cell lysate

Lysates/proteins at 20 µg per lane.

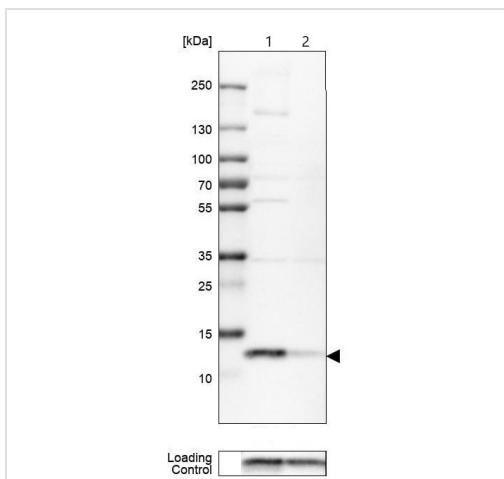
Performed under reducing conditions.

Observed band size: 13 kDa

False colour image of Western blot: Anti-DYNLT3 antibody (ab121209) staining at 0.04 µg/ml, shown in green; Mouse anti-Alpha Tubulin [DM1A] (ab7291) loading control staining at 1/20000 dilution, shown in red.

In Western blot, ab121209 was shown to bind specifically to

DYNLT3. A band was observed at 13 kDa in wild-type HeLa cell lysates with no signal observed at this size in DYNLT3 CRISPR-Cas9 edited cell lysates. The band observed in the CRISPR-Cas9 edited lysate lane above 13 kDa is likely to represent DYNLT3 with an insertion. This has not been investigated further and the functional properties of the gene product have not been determined. To generate this image, wild-type and DYNLT3 CRISPR-Cas9 edited HeLa cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) at 1/20000 dilution.



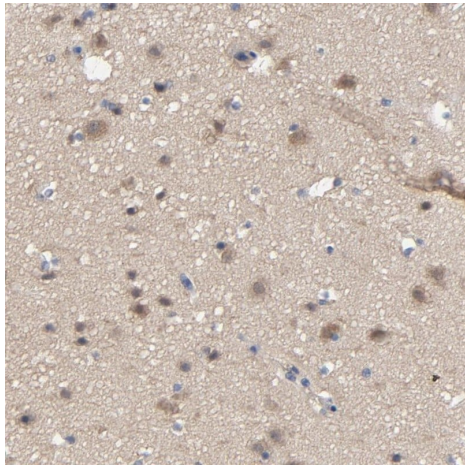
Western blot - Anti-DYNLT3 antibody (ab121209)

All lanes : Anti-DYNLT3 antibody (ab121209)

Lane 1 : SK-MEL-30 (human melanoma cell line) whole cell lysate

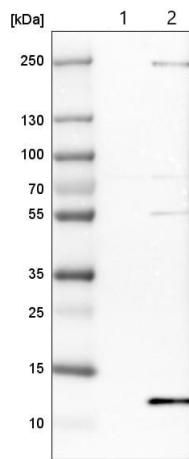
Lane 2 : MCF7 (human breast adenocarcinoma cell line) whole cell lysate

Loading control: Anti-PFN1.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DYNLT3 antibody (ab121209)

ab121209 at 1/750 dilution staining DYNLT3 in Paraffin-embedded Human cerebral cortex tissue by Immunohistochemistry.



Western blot - Anti-DYNLT3 antibody (ab121209)

All lanes : Anti-DYNLT3 antibody (ab121209)

Lane 1 : NIH/3T3 (mouse embryo fibroblast cell line) whole cell lysate

Lane 2 : NBT-II (rat urinary bladder tumor cell line) whole cell lysate

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