

## Product datasheet

# Anti-Cytoplasmic Dynein Intermediate chain antibody [74.1] ab23905

Recombinant

★★★★☆ 6 Abreviews 28 References 7 Images

### Overview

<b>Product name</b>	Anti-Cytoplasmic Dynein Intermediate chain antibody [74.1]
<b>Description</b>	Mouse monoclonal [74.1] to Cytoplasmic Dynein Intermediate chain
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, IP, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Full length native protein (purified) corresponding to Cow Cytoplasmic Dynein Intermediate chain.
<b>Positive control</b>	WB: U-87 MG, SH-SY5Y, MDA-MB-231, PC-12, C6 and RAW264.7 whole cell lysates. Flow Cyt: HeLa and C6 cells. IP: U-87 MG whole cell lysate. Rat brain tissue lysate.
<b>General notes</b>	<p>This product has switched from a hybridoma to recombinant production method on 8th March 2021.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 59% PBS, 40% Glycerol (glycerin, glycerine)
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	74.1
<b>Isotype</b>	IgG2b

## Applications

### The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab23905 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
Flow Cyt		1/1000.
IP	★★★★★ (1)	1/30.
WB	★★★★☆ (5)	1/1000. Detects a band of approximately 73 kDa (predicted molecular weight: 73 kDa).

## 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. The intermediate chains mediate the binding of dynein to dynactin via its 150 kDa component (p150-glued) DCNT1. May play a role in mediating the interaction of cytoplasmic dynein with membranous organelles and kinetochores.

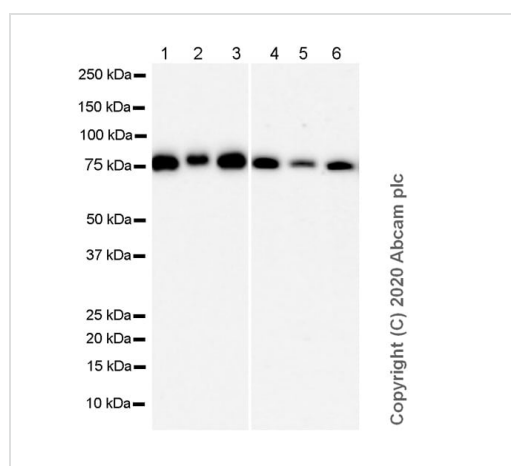
### Sequence similarities

Belongs to the dynein intermediate chain family.  
Contains 7 WD repeats.

### Cellular localization

Cytoplasm. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle pole.

## Images



Western blot - Anti-Cytoplasmic Dynein Intermediate chain antibody [74.1] (ab23905)

**All lanes :** Anti-Cytoplasmic Dynein Intermediate chain antibody [74.1] (ab23905) at 1/1000 dilution

**Lane 1 :** U-87 MG (human glioblastoma-astrocytoma epithelial cell), whole cell lysate

**Lane 2 :** SH-SY5Y (human neuroblastoma epithelial cell), whole cell lysate

**Lane 3 :** MDA-MB-231 (human breast adenocarcinoma epithelial cell), whole cell lysate

**Lane 4 :** PC-12 (rat adrenal gland pheochromocytoma), whole cell lysate

**Lane 5 :** C6 (rat glial tumor glial cell), whole cell lysate

**Lane 6 :** RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage), whole cell lysate

Lysates/proteins at 20 µg per lane.

## Secondary

**All lanes :** Peroxidase-Conjugated Goat anti-Mouse IgG (H+L) at 1/10000 dilution

**Predicted band size:** 73 kDa

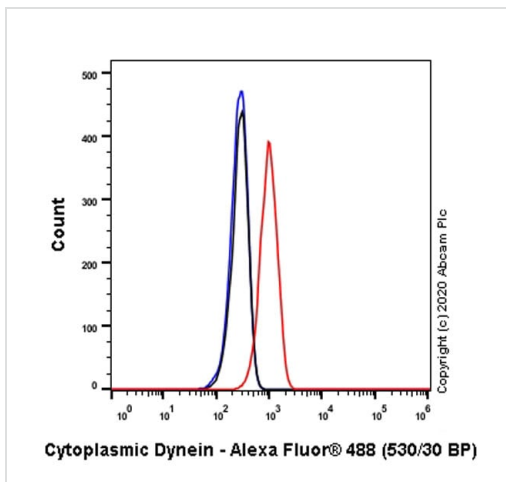
**Observed band size:** 73 kDa

**Blocking buffer and concentration:** 5% NFDm/TBST

**Exposure time:**

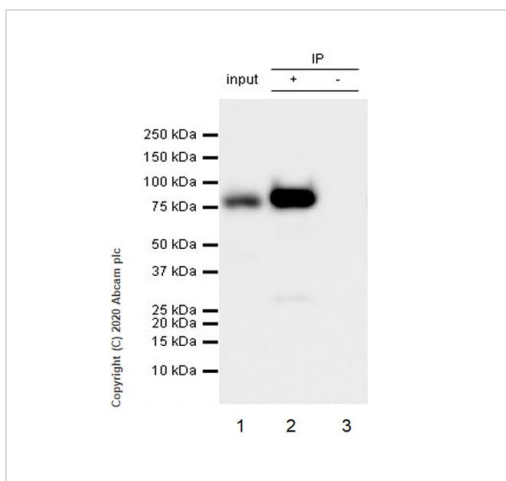
Lanes 1-3: 37 seconds

Lanes 4-6: 81 seconds



Flow Cytometry - Anti-Cytoplasmic Dynein Intermediate chain antibody [74.1] (ab23905)

Flow Cytometry analysis of HeLa (human cervix adenocarcinoma epithelial cell line) cells labeling Cytoplasmic Dynein Intermediate chain with ab23905 at 1/1000 dilution. Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Goat Anti-Mouse IgG (Alexa Fluor® 488) (ab150113) at 1/2000 was used as the secondary antibody (red). Mouse monoclonal IgG was used as the isotype control (black). Cells without incubation with primary and secondary antibodies were used as the unlabeled control (blue).



Immunoprecipitation - Anti-Cytoplasmic Dynein Intermediate chain antibody [74.1] (ab23905)

Cytoplasmic Dynein Intermediate chain was immunoprecipitated from 0.35 mg Rat brain tissue lysate 10 µg with ab23905 at 1/30 dilution (2 µg in 0.35 mg lysates). Western blot was performed on the immunoprecipitate using ab23905 at 1/1000 dilution. mouse IgG for IP (HRP) (ab131368) was used at 1/10000 dilution.

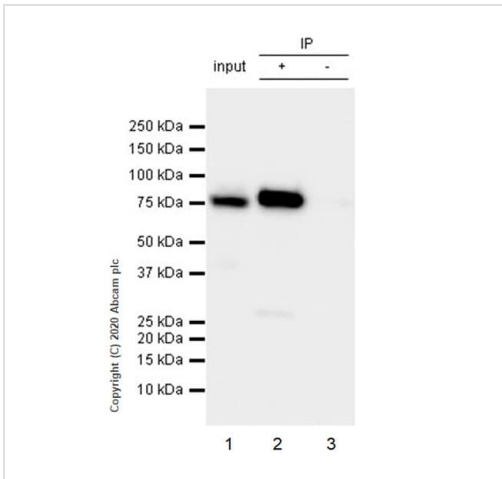
**Lane 1:** Rat brain tissue lysate 10 µg

**Lane 2:** ab23905 IP in Rat brain tissue lysate

**Lane 3:** Mouse monoclonal IgG instead of ab23905 in rat brain tissue lysate

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 1 second



Immunoprecipitation - Anti-Cytoplasmic Dynein Intermediate chain antibody [74.1] (ab23905)

Cytoplasmic Dynein Intermediate chain was immunoprecipitated from 0.35 mg U-87 MG (human glioblastoma-astrocytoma epithelial cell) whole cell lysate 10 µg with ab23905 at 1/30 dilution (2 µg in 0.35 mg lysates). Western blot was performed on the immunoprecipitate using ab23905 at 1/1000 dilution. mouse IgG for IP (HRP) (ab131368) was used at 1/10000 dilution.

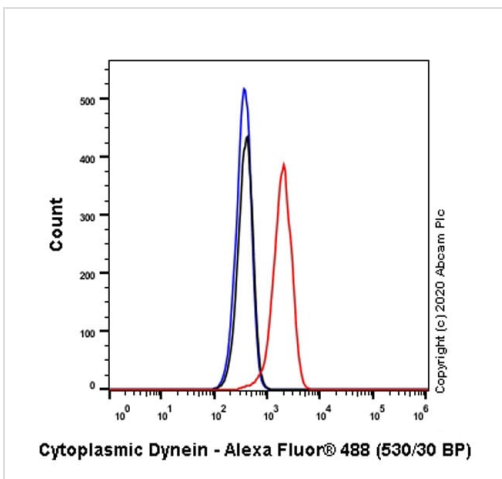
**Lane 1:** U-87 MG whole cell lysate 10 µg

**Lane 2:** ab23905 IP in U-87 MG whole cell lysate

**Lane 3:** Mouse monoclonal IgG instead of ab23905 in U-87 MG whole cell lysate

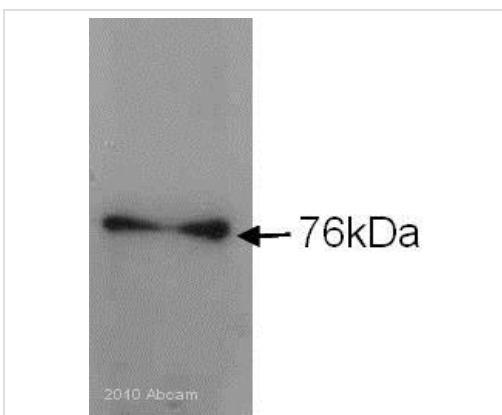
Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 1 second



Flow Cytometry - Anti-Cytoplasmic Dynein Intermediate chain antibody [74.1] (ab23905)

Flow Cytometry analysis of C6 (rat glial tumor cell line) cells labeling Cytoplasmic Dynein Intermediate chain with ab23905 at 1/1000 dilution. Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Goat Anti-Mouse IgG (Alexa Fluor® 488) (ab150113) at 1/2000 was used as the secondary antibody (red). Mouse monoclonal IgG was used as the isotype control (black). Cells without incubation with primary and secondary antibodies were used as the unlabeled control (blue).



Western blot - Anti-Cytoplasmic Dynein Intermediate chain antibody [74.1] (ab23905)

This image is courtesy of an anonymous Abreview

Anti-Cytoplasmic Dynein Intermediate chain antibody [74.1] (ab23905) at 1/1000 dilution + Rat Sciatic nerve whole tissue lysate at 60 µg

**Secondary**

HRP-conjugated Goat anti-mouse IgG at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 73 kDa

**Gel:** 10% acryl amid

**Blocking Step:** 5% Milk for 30 minutes at 25°C

This image was generated from the hybridoma version of the product.

Why choose a recombinant antibody?

**Research with confidence**  
Consistent and reproducible results

**Long-term and scalable supply**  
Recombinant technology

**Success from the first experiment**  
Confirmed specificity

**Ethical standards compliant**  
Animal-free production

Anti-Cytoplasmic Dynein Intermediate chain antibody [74.1] (ab23905)

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

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