abcam

ab23905

# Anti-Cytoplasmic Dynein Intermediate chain antibody [74.1]

Recombinant

## Key facts

| | |
|---|---|
| **Isotype** | IgG2b |
| **Host species** | Mouse |
| **Storage buffer** | Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | The exact immunogen used to generate this antibody is proprietary information. |
| **Clone number** | 74.1 |
| **Purification technique** | Affinity purification Protein A |
| **Concentration** | 0.955 mg/mL The concentration of this product may be batch-dependent<br>Batch concentration finder → |

## Reactivity data

## IP

### Tested

| | |
|---|---|
| **Species** | Rat |
| **Dilution info** | 1/30 |
| **Notes** | - |

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/30 |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

## Flow Cyt

### Tested

| | |
|---|---|
| **Species** | Rat |
| **Dilution info** | 1/1000 |
| **Notes** | - |

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/1000 |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

## WB

### Tested

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | 1/1000 |
| **Notes** | - |

| | |
|---|---|
| **Species** | Rat |
| **Dilution info** | 1/1000 |
| **Notes** | - |

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/1000 |
| **Notes** | - |

## ICC

**Not recommended**

| | |
|---|---|
| **Species** | Human, Rat, Mouse |
| **Dilution info** | - |
| **Notes** | - |

## Target data

See full target information DYNC1I1

| | |
|---|---|
| **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) DCTN1. May play a role in mediating the interaction of cytoplasmic dynein with membranous organelles and kinetochores. |

## Storage

| | |
|---|---|
| **Shipped at conditions** | Blue Ice |
| **Appropriate short-term storage duration** | 1-2 weeks |
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | -20°C |
| **Aliquoting information** | Upon delivery aliquot |

| | |
|---|---|
| **Storage information** | Avoid freeze / thaw cycle |

## Notes

This product has switched from a hybridoma to recombinant production method on 8th March 2021.
**What are the advantages of a recombinant monoclonal antibody?**
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

## Product promise

**Tested**

We have tested this species and application combination and it works. It is covered by our product promise.

**Expected**

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

**Predicted**

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

**Not recommended**

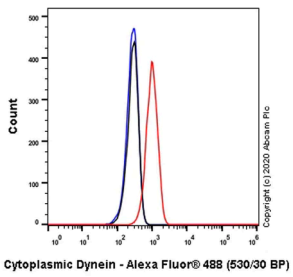
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

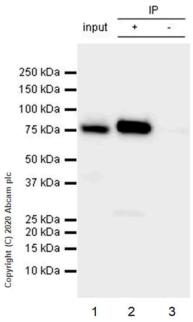
## 6 product images




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

Cytoplasmic Dynein Intermediate chain Flow Cytometry staining using mouse Anti-Cytoplasmic Dynein Intermediate chain antibody

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 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

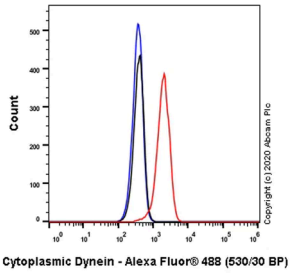
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 1 second

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

Predicted band size: 73 kDa

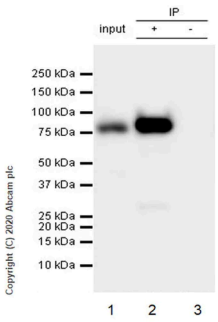
Exposure time: 1s




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

Cytoplasmic Dynein Intermediate chain Flow Cytometry staining using mouse Anti-Cytoplasmic Dynein Intermediate chain antibody

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).




## 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

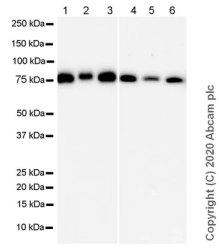
**Lane 3:** Mouse monoclonal IgG instead of ab23905 in rat brain tissue lysate

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

Exposure time: 1 second

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

Predicted band size: 73 kDa




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

**Blocking buffer and concentration:** 5% NFDM/TBST
**Exposure time:**

Lanes 1-3: 37 seconds
Lanes 4-6: 81 seconds

All lanes:
Western blot - 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 at 20 µg

Lane 2:
SH-SY5Y (human neuroblastoma epithelial cell), whole cell lysate at 20 µg

Lane 3:
MDA-MB-231 (human breast adenocarcinoma epithelial cell), whole cell lysate at 20 µg

Lane 4:
PC-12 (rat adrenal gland pheochromocytoma), whole cell lysate at 20 µg

Lane 5:
C6 (rat glial tumor glial cell), whole cell lysate at 20 µg

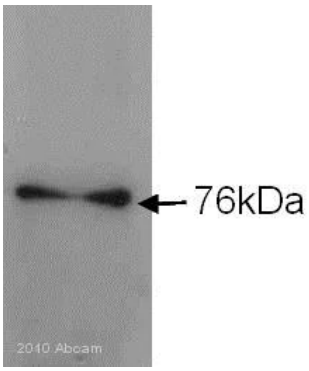
Lane 6:
RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage), whole cell lysate at 20 µg

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




This image is courtesy of an anonymous customer review

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

**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.

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

All lanes:
Rat Sciatic nerve whole tissue lysate at 60 µg

Secondary

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

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 73 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.