abcam

ab255981

Anti-Cytoplasmic Dynein Intermediate chain antibody [74.1] - BSA and Azide free

Recombinant

Key facts

Isotype	IgG2b
Host species	Mouse
Storage buffer	Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	74.1
Purification technique	Affinity purification Protein A
Concentration	1.031 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC

Not recommended

Species	Rat, Human, Mouse
Dilution info	-

Notes	-

IP

Tested

Species	Rat, Human
Dilution info	-
Notes	-

Expected

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

Flow Cyt

Tested

Species	Rat, Human
Dilution info	-
Notes	-

Expected

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

WB

Tested

Species	Mouse, Rat, Human
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 conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab255981 is the carrier-free version of ab23905.
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.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

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

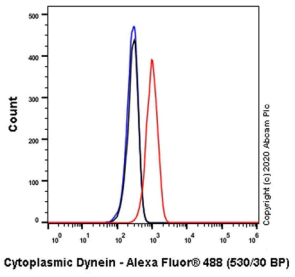
We do not recommend this combination. It is not covered by our product promise.

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.

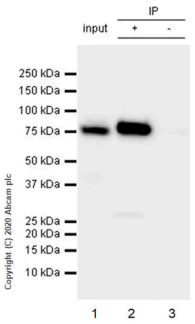
5 product images



Flow Cytometry - Anti-Cytoplasmic Dynein Intermediate chain antibody [74.1] - BSA and Azide free (ab255981)

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

This data was developed using ab23905 the same antibody clone in a different buffer formulation.Flow cytometric analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labelling Cytoplasmic Dynein Intermediate chain with ab23905 at 1/1000 dilution (0.1µg) (Red) compared with a Mouse monoclonal IgG (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti mouse IgG (Alexa Fluor® 488, ab150113) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-Cytoplasmic Dynein Intermediate chain antibody [74.1] - BSA and Azide free (ab255981)

This data was developed using ab23905 the same antibody clone in a different buffer formulation. 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

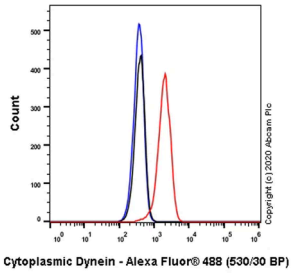
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 1 second

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

Predicted band size: 73 kDa

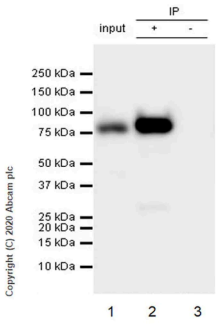
Exposure time: 1s



Flow Cytometry - Anti-Cytoplasmic Dynein Intermediate chain antibody [74.1] - BSA and Azide free (ab255981)

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

This data was developed using ab23905 the same antibody clone in a different buffer formulation.Flow cytometric analysis of C6 (Rat glial tumor glial cell) cells labelling Cytoplasmic Dynein Intermediate chain with ab23905 at 1/1000 dilution (0.1µg) (Red) compared with a Mouse monoclonal IgG (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti mouse IgG (Alexa Fluor® 488, ab150113) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-Cytoplasmic Dynein Intermediate chain antibody [74.1] - BSA and Azide free (ab255981)

This data was developed using ab23905 the same antibody clone in a different buffer formulation. 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

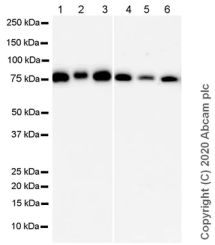
Lane 3: Mouse monoclonal IgG instead of ab23905 in rat brain tissue lysate

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] - BSA and Azide free (ab255981)

This data was developed using ab23905, the same antibody clone in a different buffer formulation.
Blocking and diluting buffer and concentration: 5% NFDM/TBST

Exposure time: lane 1-3: 37 seconds; lane 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

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