abcam

ab307499

Anti-CHD7 antibody [EPR25355-7]

Recombinant | RabMAb | KO Validated | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 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	EPR25355-7
Purification technique	Affinity purification Protein A
Concentration	0.502 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ChIP

Not recommended

Species	Mouse, Human, Rat, Transfected cell lysate - Human
Dilution info	-
Notes	-

IP

Not recommended

Species	Mouse, Human, Rat, Transfected cell lysate - Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/50
Notes	-

Species	Human
Dilution info	1/50
Notes	-

Expected

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

Not recommended

Species	Transfected cell lysate - Human
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	1/100

Notes	-

Species	Human
Dilution info	1/100
Notes	-

Expected

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

Not recommended

Species	Transfected cell lysate - Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Rat
Dilution info	1/2000
Notes	-

Species	Mouse
Dilution info	1/2000
Notes	-

Not recommended

Species	Human, Transfected cell lysate - Human
Dilution info	-
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Transfected cell lysate - Human
Dilution info	1/1000
Notes	-

Species	Human
Dilution info	1/1000
Notes	-

Not recommended

Species	Rat
Dilution info	-
Notes	-

Target data

See full target information CHD7

Function	ATP-dependent chromatin-remodeling factor, slides nucleosomes along DNA; nucleosome sliding requires ATP (PubMed:28533432). Probable transcription regulator. May be involved in the in 45S precursor rRNA production.

Storage

Shipped at conditions	Conditional Ambient
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

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

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

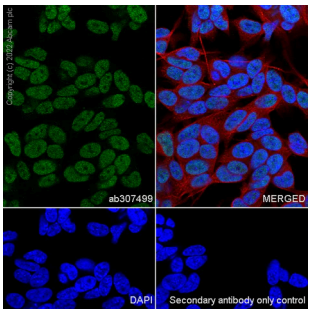
We do not recommend this combination. It is not covered by our product promise.

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.

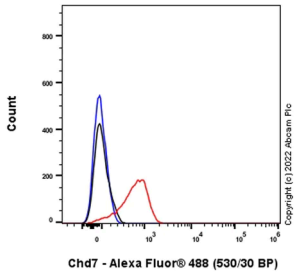
11 product images



Immunocytochemistry/ Immunofluorescence - Anti-CHD7 antibody [EPR25355-7] (ab307499)

CHD7 Immunocytochemistry/ Immunofluorescence staining of SH-SY5Y (human neuroblastoma epithelial cell) using rabbit Anti-CHD7 antibody

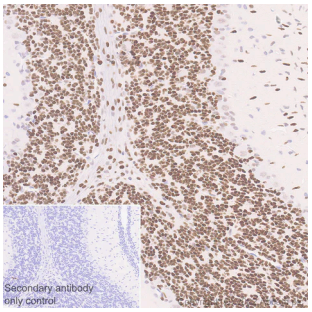
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized SH-SY5Y (human neuroblastoma epithelial cell) cells labelling CHD7 with ab307499 at 1/100 (5.02 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 2 ug/ml dilution (Green). Confocal image showing nuclear staining in SH-SY5Y cell line.Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). is observed. ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 2.5ug/ml dilution (Red). The Nuclear counterstain was DAPI (Blue). Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/ml dilution.



Flow Cytometry (Intracellular) - Anti-CHD7 antibody [EPR25355-7] (ab307499)

CHD7 Flow Cytometry (Intracellular) staining of SH-SY5Y (human neuroblastoma epithelial cell) using rabbit Anti-CHD7 antibody

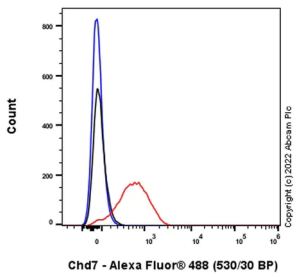
Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized SH-SY5Y (human neuroblastoma epithelial cell) cells labelling CHD7 with ab307499 at 1/50 dilution (1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2000 dilution was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CHD7 antibody [EPR25355-7] (ab307499)

CHD7 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of P14 mouse cerebellum using rabbit Anti-CHD7 antibody

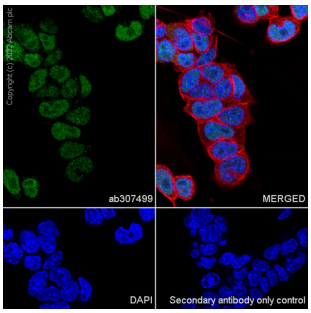
Immunohistochemical analysis of paraffin-embedded Postnatal day 14 (P1 tissue lABeling CHD7 with ab307499 at 1/2000 (0.251 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Nuclear staining on P14 rat cerebellum. The section was incubated with ab307499 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Flow Cytometry (Intracellular) - Anti-CHD7 antibody [EPR25355-7] (ab307499)

CHD7 Flow Cytometry (Intracellular) staining of ES-D3 (mouse blastocyst-derived embryonic stem cell) using rabbit Anti-CHD7 antibody

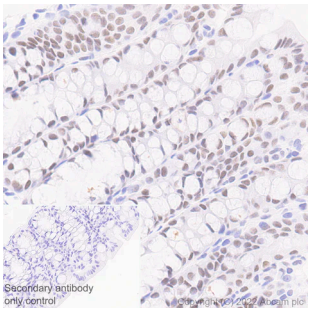
Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized ES-D3 (mouse blastocyst-derived embryonic stem cell) cells labelling CHD7 with ab307499 at 1/50 dilution (1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2000 dilution was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-CHD7 antibody [EPR25355-7] (ab307499)

CHD7 Immunocytochemistry/ Immunofluorescence staining of ES-D3 (mouse blastocyst-derived embryonic stem cell) using rabbit Anti-CHD7 antibody

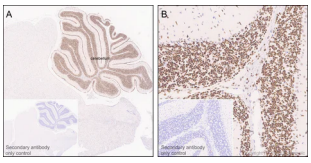
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized ES-D3 (mouse blastocyst-derived embryonic stem cell) cells labelling CHD7 with ab307499 at 1/100 (5.02 ug/ml) dilution, followed by ab150081 Goat Anti-RABbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 2 ug/ml dilution (Green). Confocal image showing nuclear staining in ES-D3 [D3] cell line.Image was taken with a confocal microscope(Leica-Microsystems, TCS SP8). is observed. ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 2.5ug/ml dilution (Red). The Nuclear counterstain was DAPI (Blue). Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/ml dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CHD7 antibody [EPR25355-7] (ab307499)

CHD7 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse colon using rabbit Anti-CHD7 antibody

Immunohistochemical analysis of paraffin-embedded Mouse colon tissue labeling CHD7 with ab307499 at 1/2000 (0.251 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Nuclear staining on mouse colon. The section was incubated with ab307499 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

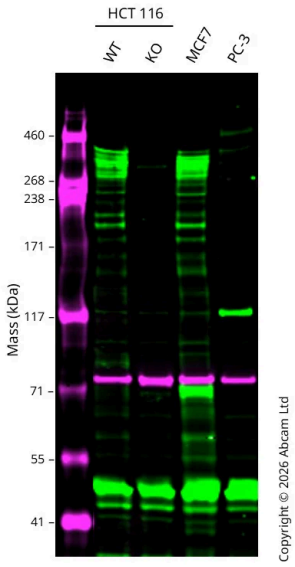


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CHD7 antibody [EPR25355-7] (ab307499)

CHD7 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of P14 mouse cerebellum using rabbit Anti-CHD7 antibody

Immunohistochemical analysis of paraffin-embedded Postnatal day 14 (P1 tissue lABeling CHD7 with ab307499 at 1/2000 (0.251 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Nuclear staining on P14 mouse cerebellum. (A) Low powered (magnification, x20) and (B) high powered (magnification, x400) microscopic images. The section

was incubated with ab307499 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND RX instrument Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Western blot - Anti-CHD7 antibody [EPR25355-7] (ab307499)

CHD7 Western blot staining using rabbit Anti-CHD7 antibody

Western blot: Anti-CHD7 antibody [EPR25355-7] ab307499 staining at 1/1000 dilution, shown in green; Mouse anti-CANX ab238078 loading control staining at 1/20000 dilution, shown in magenta. A band was observed at 270-350 kDa in Wild-type HCT 116 cell line with no signal observed at this size in CHD7 knockout HCT 116 cell line. To generate this image, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 5% Milk in TBS-0.1 % Tween® 20 (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 800CW and Goat anti-Mouse 680RD at 1/20,000 dilution.
All lanes:
Western blot - Anti-CHD7 antibody [EPR25355-7] (ab307499) at 1/1000 dilution

Lane 1:
Wild-type HCT 116 at 20 µg

Lane 2:
Western blot - Human CHD7 knockout HCT116 cell line (ab289116) at 20 µg

Lane 3:
MCF7 at 20 µg

Lane 4:
PC-3 at 20 µg

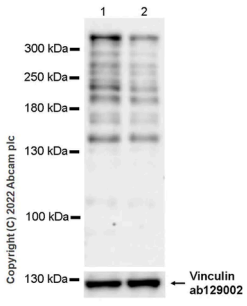
Secondary

All lanes:
Goat anti-Rabbit 800CW & Goat anti-Mouse 680RD at 1/20000 dilution

Performed under reducing conditions.

Predicted band size: 336 kDa

Observed band size: 270-350 kDa



Western blot - Anti-CHD7 antibody [EPR25355-7] (ab307499)

Blocking and diluting buffer and concentration: 5% NFDM/TBSTThe bands below 336 kDa may be caused by degradation. Lysates were freshly made and used for Western blotting immediately to minimize protein degradation. Exposure time: Lanes 1-2: 37 seconds, Lanes 3-5: 10 seconds.
All lanes:
Western blot - Anti-CHD7 antibody [EPR25355-7] (ab307499) at 1/1000 dilution

Lane 1:
SH-SY5Y (human neuroblastoma epithelial cell) transfected with scrambled siRNA control whole cell lysate 20 µg

Lane 2:

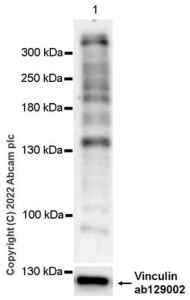
SH-SY5Y transfected with siRNA specifically targeti CHD7 whole cell lysate 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Observed band size: 336 kDa

Exposure time: 180s



Western blot - Anti-CHD7 antibody [EPR25355-7] (ab307499)

Blocking and diluting buffer and concentration: 5% NFDM/TBST
The bands below 336 kDa may be caused by degradation.

Lysates were freshly made and used for Western blotting immediately to minimize protein degradation.

This blot was developed using a high sensitivity ECL substrate. The high-sensitivity ECL substrate used allows for the detection of proteins in the mid-femtogram range.

All lanes:
Western blot - Anti-CHD7 antibody [EPR25355-7] (ab307499) at 1/1000 dilution

All lanes:
Neuro-2a (mouse neuroblastoma neuroblast) whole cell lysate 20 µg

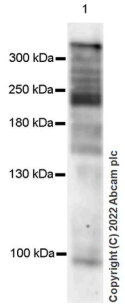
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Developed using the ECL technique.

Observed band size: 336 kDa

Exposure time: 180s



Western blot - Anti-CHD7 antibody [EPR25355-7] (ab307499)

Blocking and diluting buffer and concentration: 5% NFDM/TBST
The bands below 336 kDa may be caused by degradation.

Lysates were freshly made and used for Western blotting immediately to minimize protein degradation.

This blot was developed using a high sensitivity ECL substrate. The high-sensitivity ECL substrate used allows for the detection of proteins in the mid-femtogram range.

All lanes:
Western blot - Anti-CHD7 antibody [EPR25355-7] (ab307499) at 1/1000 dilution

All lanes:
ES-D3 (mouse embryonic pluripotent stem Cell) whole cell lysate at 20 µg

Secondary

All lanes:

Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Developed using the ECL technique.

Observed band size: 336 kDa

Exposure time: 180s

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