abcam

ab289974

Anti-hnRNP H antibody [EPR25302-12]

Recombinant | RabMAb | 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	EPR25302-12
Purification technique	Affinity purification Protein A
Concentration	0.485 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Mouse
Dilution info	1/500
Notes	-

Species	Rat

Dilution info	1/500
Notes	-

Species	Human
Dilution info	1/500
Notes	-

Not recommended

Species	Recombinant fragment
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	Recombinant fragment
Dilution info	-
Notes	-

IP

Tested

Species	Mouse
Dilution info	1/30
Notes	-

Species	Human
Dilution info	1/30
Notes	-

Expected

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

Not recommended

Species	Recombinant fragment
Dilution info	-
Notes	-

WB

Tested

Species	Recombinant fragment
Dilution info	1/1000
Notes	-

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat

Dilution info	1/1000
Notes	-

Species	Human
Dilution info	1/1000
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/500
Notes	-

Species	Human
Dilution info	1/500
Notes	-

Expected

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

Not recommended

Species	Recombinant fragment
Dilution info	-
Notes	-

Target data

See full target information HNRNPH1

Function	This protein is a component of the heterogeneous nuclear ribonucleoprotein (hnRNP) complexes which provide the substrate for the processing events that pre-

mRNAs undergo before becoming functional, translatable mRNAs in the cytoplasm. Mediates pre-mRNA alternative splicing regulation. Inhibits, together with CUGBP1, insulin receptor (IR) pre-mRNA exon 11 inclusion in myoblast. Binds to the IR RNA. Binds poly(RG).

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.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The heterogeneous nuclear ribonucleoprotein H (hnRNP H) also sometimes referred to as hnRNP H1 is an RNA-binding protein with a molecular mass of approximately 49 kDa. It belongs to the hnRNP family of proteins which are involved in the processing and transport of pre-mRNA. This protein is expressed in the nucleus of eukaryotic cells and plays a role in RNA stability and metabolism.

Biological function summary	HnRNP H acts as a splicing regulator and is a member of the hnRNP complex. It binds to the RNA cis-elements influencing alternative splicing events. hnRNP H can interact with other RNA-binding proteins and regulatory elements to modulate the inclusion or exclusion of certain exons. This helps in generating different mRNA variants allowing the production of protein diversity from a single gene.
Pathways	HnRNP H participates in the alternative splicing and mRNA processing pathways. The proteins it interacts with such as serine/arginine-rich splicing factor 1 (SRSF1) help facilitate the splicing mechanisms. hnRNP H's ability to influence splicing makes it essential for cellular processes like development and differentiation by producing proteins with varied functionalities.
Associated diseases and disorders	HnRNP H has connections with cancer and neurodegenerative diseases. Dysregulation of hnRNP H's splicing activity has been linked to cancers like glioblastoma where it impacts the expression of oncogenic proteins. Additionally hnRNP H's role in splicing has associations with conditions like amyotrophic lateral sclerosis (ALS) where proteins such as TAR DNA-binding protein 43 (TDP-43) might also be involved.

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

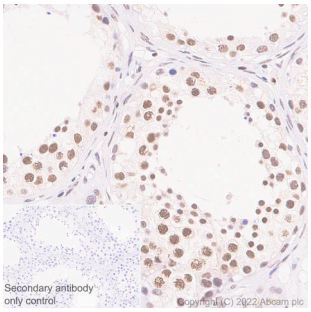
We do not recommend this combination. It is not covered by our product promise.

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.

14 product images

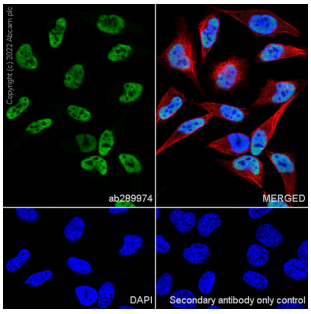


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP H antibody [EPR25302-12] (ab289974)

HnRNP H Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-hnRNP H antibody

Immunohistochemical analysis of paraffin-embedded Human testis tissue labelling hnRNP H with ab289974 at 1/500 dilution followed by LeicaDS9800 (Bond™, Polymer Refine Detection). Positive staining on human testis. The section was incubated with ab289974 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 LeicaDS9800 (Bond™, Polymer Refine Detection).

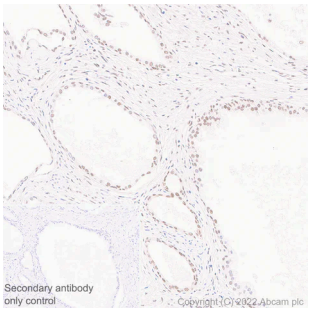
Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins



Immunocytochemistry/ Immunofluorescence - Anti-hnRNP H antibody [EPR25302-12] (ab289974)

HnRNP H Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-hnRNP H antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa cells labeling hnRNP H with ab289974 at 1/100 dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green). Confocal image showing nuclear staining in HeLa cell line. ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 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 dilution.

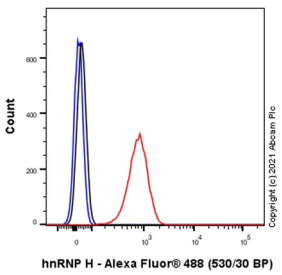


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP H antibody [EPR25302-12] (ab289974)

HnRNP H Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-hnRNP H antibody

Immunohistochemical analysis of paraffin-embedded Human prostatic hype tissue labelling hnRNP H with ab289974 at 1/500 dilution followed by LeicaDS9800 (Bond™, Polymer Refine Detection). Positive staining on human prostatic hyperplasia. The section was incubated with ab289974 for 30 mins at room temperatureThe immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.
Secondary antibody only control: Secondary antibody is LeicaDS9800 (Bond™, Polymer Refine Detection).

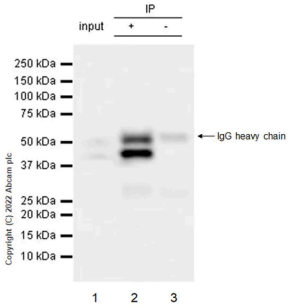
Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins



Flow Cytometry (Intracellular) - Anti-hnRNP H antibody [EPR25302-12] (ab289974)

HnRNP H Flow Cytometry (Intracellular) staining using rabbit Anti-hnRNP H antibody

Intracellular flow analysis of 4% paraformaldehyde fixed, 90% methanol permeabilized HeLa (Human cervix adenocarcinoma epithelial cell) cells labelling hnRNP H with ab289974 at 1/500 dilution (0.1µg) (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.



Immunoprecipitation - Anti-hnRNP H antibody [EPR25302-12] (ab289974)

hnRNP H was immunoprecipitated from HeLa (human epithelial cell line from cervix adenocarcinoma), whole cell lysate with ab289974 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab289974 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(ab131366) was used at 1/5000 dilution.
Lane 1: HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate 10 µg

Lane 2: ab289974 IP in HeLa whole cell lysate

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab289974 in HeLa whole cell lysate

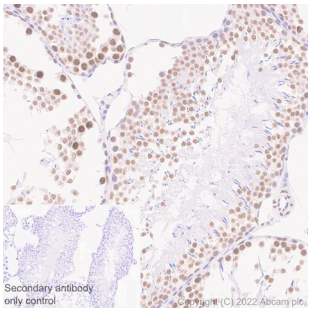
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 seconds

All lanes:
Immunoprecipitation - Anti-hnRNP H antibody [EPR25302-12] (ab289974)

Predicted band size: 49 kDa

Observed band size: 50 kDa

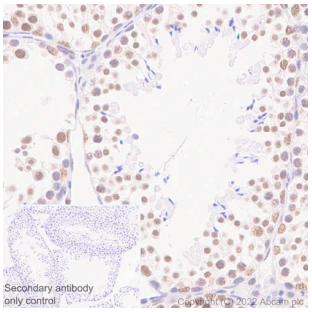


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP H antibody [EPR25302-12] (ab289974)

HnRNP H Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-hnRNP H antibody

Immunohistochemical analysis of paraffin-embedded Rat testis tissue labelling hnRNP H with ab289974 at 1/500 dilution followed by LeicaDS9800 (Bond™, Polymer Refine Detection). Positive staining on rat testis. The section was incubated with ab289974 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 LeicaDS9800 (Bond™, Polymer Refine Detection).

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins

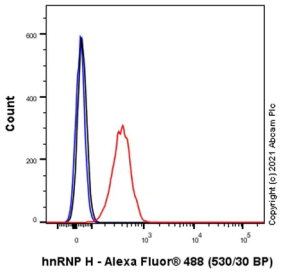


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP H antibody [EPR25302-12] (ab289974)

HnRNP H Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-hnRNP H antibody

Immunohistochemical analysis of paraffin-embedded Mouse testis tissue labelling hnRNP H with ab289974 at 1/500 dilution followed by LeicaDS9800 (Bond™, Polymer Refine Detection). Positive staining on mouse testis. The section was incubated with ab289974 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 LeicaDS9800 (Bond™, Polymer Refine Detection) .

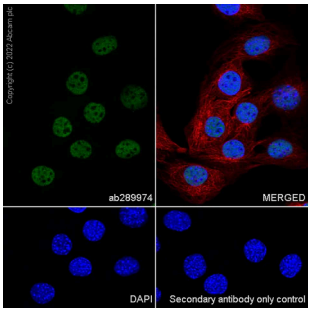
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Flow Cytometry (Intracellular) - Anti-hnRNP H antibody [EPR25302-12] (ab289974)

HnRNP H Flow Cytometry (Intracellular) staining using rabbit Anti-hnRNP H antibody

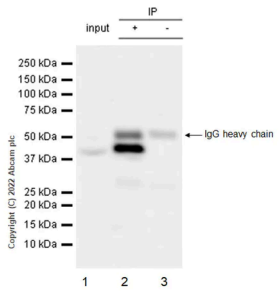
Intracellular flow cytometric analysis of 4% paraformaldehyde fixed, 90% methanol permeabilized C2C12 (Mouse myoblasts myoblast) cells labelling hnRNP H with ab289974 at 1/500 dilution (0.1µg) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells 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-hnRNP H antibody [EPR25302-12] (ab289974)

HnRNP H Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-hnRNP H antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized C2C12 cells llabeling hnRNP H with ab289974 at 1/100 dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed secondary antibody at 1/1000 dilution (Green). Confocal image showing nuclear staining in C2C12 cell line. ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).
Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution.



Immunoprecipitation - Anti-hnRNP H antibody [EPR25302-12] (ab289974)

hnRNP H was immunoprecipitated from 0.35 mg C2C12 (Mouse myoblasts myoblast), whole cell lysate 10 µg with ab289974 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab289974 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(ab131366) was used at 1/5000 dilution. Lane 1: C2C12 (Mouse myoblasts myoblast), whole cell lysate 10 µg

Lane 2: ab289974 IP in C2C12 whole cell lysate

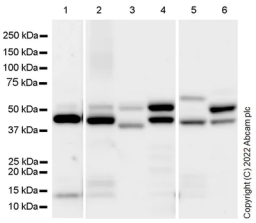
Lane 3:Rabbit monoclonal IgG (ab172730) instead of ab289974 in C2C12 whole cell lysate

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

Exposure time: 5.5 seconds
All lanes:
Immunoprecipitation - Anti-hnRNP H antibody [EPR25302-12] (ab289974)

Predicted band size: 49 kDa

Observed band size: 50 kDa



Western blot - Anti-hnRNP H antibody [EPR25302-12] (ab289974)

HnRNP H Western blot staining using rabbit Anti-hnRNP H antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST
The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 23667175, PMID: 21915099)

Exposure times: Lane 1: 3 minutes Lane 2-6: 15 seconds

All lanes:
Western blot - Anti-hnRNP H antibody [EPR25302-12] (ab289974) at 1/1000 dilution

Lane 1:
Human testis tissue lysate at 20 µg

Lane 2:
Mouse colon tissue lysate at 20 µg

Lane 3:
Mouse liver tissue lysate at 20 µg

Lane 4:
Mouse testis tissue lysate at 20 µg

Lane 5:
Rat liver tissue lysate at 20 µg

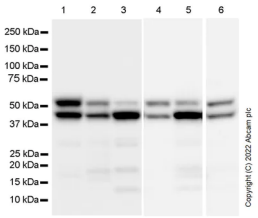
Lane 6:
Rat testis tissue lysate at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1/100000 dilution

Predicted band size: 49 kDa

Observed band size: 50 kDa



Western blot - Anti-hnRNP H antibody [EPR25302-12] (ab289974)

HnRNP H Western blot staining using rabbit Anti-hnRNP H antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST
The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 23667175, PMID: 21915099)

Exposure times: Lane 1-3: 3 seconds Lane 4-6: 5 seconds

All lanes:
Western blot - Anti-hnRNP H antibody [EPR25302-12] (ab289974) at 1/1000 dilution

Lane 1:
HEK-293T (human embryonic kidney epithelial cell) whole cell lysate at 20 µg

Lane 2:
U-2OS(human bone osteosarcoma epithelial cell), whole cell lysate at 20 µg

Lane 3:
MOLT-4 (human lymphoblastic leukemia T lymphoblast), whole cell lysate at 20 µg

Lane 4:
C2C12 (Mouse myoblasts myoblast), whole cell lysate at 20 µg

Lane 5:
NIH/3T3 (mouse embryonic fibroblast), whole cell lysate at 20 µg

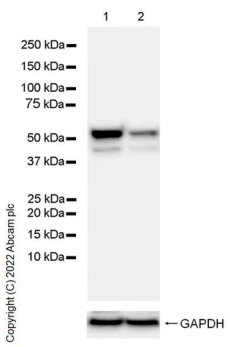
Lane 6:
C6 (rat glial tumor glial cell), whole cell lysate at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1/100000 dilution

Predicted band size: 49 kDa

Observed band size: 50 kDa



Western blot - Anti-hnRNP H antibody [EPR25302-12] (ab289974)

HnRNP H Western blot staining using rabbit Anti-hnRNP H antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST
The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 23667175, PMID: 21915099)

Exposure time: 8 seconds

All lanes:
Western blot - Anti-hnRNP H antibody [EPR25302-12] (ab289974) at 1/1000 dilution

Lane 1:
HeLa (human cervix adenocarcinoma epithelial cell) transfected with scrambled siRNA control whole cell lysate at 20 µg

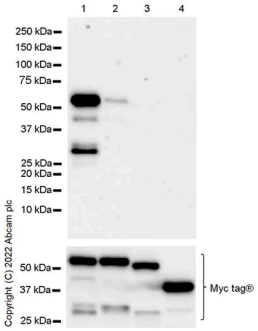
Lane 2:
HeLa transfected with siRNA specifically targeti hnRNP H whole cell lysate at 20 µg

Secondary

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

Predicted band size: 49 kDa

Observed band size: 50 kDa



Western blot - Anti-hnRNP H antibody [EPR25302-12] (ab289974)

Blocking and diluting buffer and concentration: 5% NFDM/TBST This antibody reacts with HNRPH1 and HNRPH2, but does not react with HNRNPF and HNRPH3. Exposure time: 114 seconds
All lanes:
Western blot - Anti-hnRNP H antibody [EPR25302-12] (ab289974) at 1/1000 dilution

Lane 1:
Myc-tagged human HNRPH1 (HNRNPH1) (NM_005520) recombinant protein (20 ng)

Lane 2:
Myc-tagged human HNRPH2 (HNRNPH2) (NM_019597) recombinant protein (20 ng)

Lane 3:
Myc-tagged human hnRNP F (HNRNPF) (NM_001098207) recombinant protein(20 ng)

Lane 4:
Myc-tagged human HNRPH3 (HNRNPH3) (NM_021644) recombinant protein (20 ng)

Secondary

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

Predicted band size: 49 kDa

Observed band size: 50 kDa

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