

hnRNP E1/PCBP1 Rabbit mAb

Catalog No.: A22141 Recombinant

Basic Information

Observed MW

37 kDa

Calculated MW

37 kDa

Category

Primary antibody

Applications

WB,IP,IF/ICC,ELISA

Cross-Reactivity

Human, Mouse

CloneNo number

ARC55411

Background

This intronless gene is thought to have been generated by retrotransposition of a fully processed PCBP-2 mRNA. This gene and PCBP-2 have paralogues (PCBP3 and PCBP4) which are thought to have arisen as a result of duplication events of entire genes. The protein encoded by this gene appears to be multifunctional. It along with PCBP-2 and hnRNPk corresponds to the major cellular poly(rC)-binding protein. It contains three K-homologous (KH) domains which may be involved in RNA binding. This encoded protein together with PCBP-2 also functions as translational coactivators of poliovirus RNA via a sequence-specific interaction with stem-loop IV of the IRES and promote poliovirus RNA replication by binding to its 5'-terminal cloverleaf structure. It has also been implicated in translational control of the 15-lipoxygenase mRNA, human Papillomavirus type 16 L2 mRNA, and hepatitis A virus RNA. The encoded protein is also suggested to play a part in formation of a sequence-specific alpha-globin mRNP complex which is associated with alpha-globin mRNA stability.

Recommended Dilutions

WB 1:1000-1:5000

IP 0.5 µg-4 µg antibody for
200 µg-400 µg extracts
of whole cells

IF/ICC 1:100-1:400

ELISA Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on
your specific assay
requirements.

Immunogen Information

Gene ID

5093

Swiss Prot

Q15365

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

HNRPX; HNRPE1; hnRNP-X; HEL-S-85; hnRNP-E1; hnRNP E1/PCBP1

Contact

 | 400-999-6126

 | cn.market@abclonal.com.cn
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Product Information

Source

Rabbit

Isotype

IgG

Purification

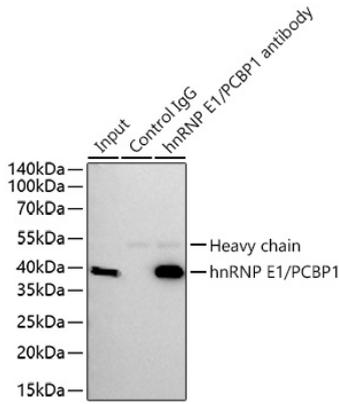
Affinity purification

Storage

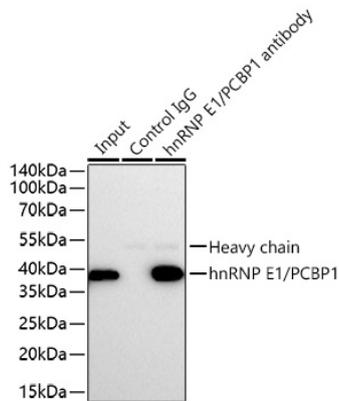
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

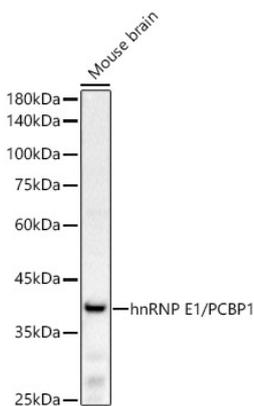
Validation Data



Immunoprecipitation of hnRNP E1/PCBP1 from 300 μ g extracts of HeLa cells was performed using 0.87 μ g of hnRNP E1/PCBP1 Rabbit mAb (A22141). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using hnRNP E1/PCBP1 Rabbit mAb (A22141) at a dilution of 1:1000.



Immunoprecipitation of hnRNP E1/PCBP1 from 300 μ g extracts of NIH/3T3 cells was performed using 0.87 μ g of hnRNP E1/PCBP1 Rabbit mAb (A22141). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using hnRNP E1/PCBP1 Rabbit mAb (A22141) at a dilution of 1:1000.



Western blot analysis of lysates from Mouse brain using hnRNP E1/PCBP1 Rabbit mAb (A22141) at 1:2000 dilution.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

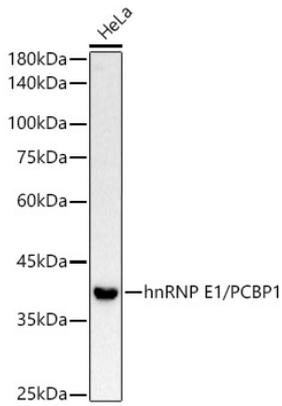
Lysates/proteins: 25 μ g per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 30s.

Validation Data



Western blot analysis of lysates from HeLa cells using hnRNP E1/PCBP1 Rabbit mAb (A22141) at 1:2000 dilution.

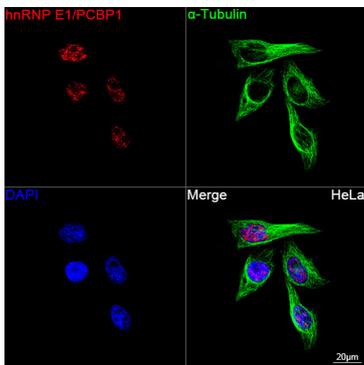
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

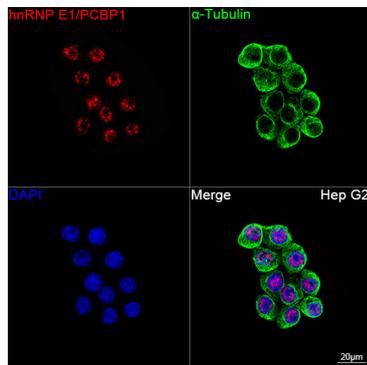
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

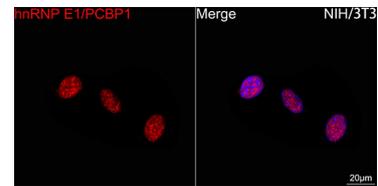
Exposure time: 3s.



Confocal imaging of HeLa cells using hnRNP E1/PCBP1 Rabbit mAb (A22141, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of Hep G2 cells using hnRNP E1/PCBP1 Rabbit mAb (A22141, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of NIH/3T3 cells using hnRNP E1/PCBP1 Rabbit mAb (A22141, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.